

# [MS-BDCWPS]: Business Data Connectivity Web Service Protocol

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# 1 Introduction

This document specifies the Business Data Connectivity Web Service Protocol. This protocol enables protocol clients to 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)**
- 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)**
- SOAP**
- SOAP action**
- SOAP body**
- SOAP fault**
- SOAP header**
- 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**
- 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**  
**ReturnTypeDescriptor**  
**root TypeDescriptor**  
**Scalar**  
**security principal**  
**Setting**  
**SpecificFinder**  
**SsoTicketFilter**  
**StreamAccessor**  
**throttle configuration setting**  
**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 namespace prefix**  
**XML schema**

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 technical 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. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[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](#)".

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

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

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[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>

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[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/>

[XMLSCHEMA1] Thompson, H.S., Beech, D., Maloney, M., Eds., and Mendelsohn, N., Ed., "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](#)".

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

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

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

## 1.3 Protocol Overview (Synopsis)

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

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

Methods can be considered to live in an **Entity** abstraction that represents a business data type, such as "customer" or "order". The LOB system interface definitions can then be transformed into normalized, stereotypical operations against Entities, such as "Read-An-Entity-Instance-By-Id", "Read-Entity-Instances", and "Check-Entity-Instance-Permissions" by annotating the LOB system interface descriptions with the annotations described by data structures, such as **MethodInstance**, **Identifier**, **FilterDescriptor**, and **Association**. These data structures, collectively called

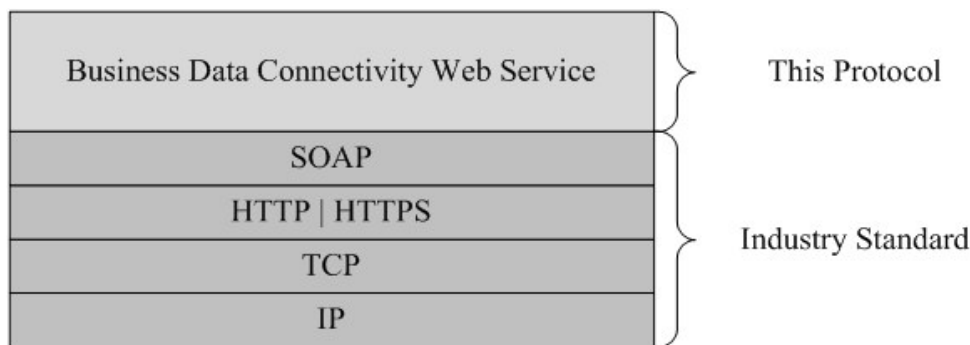
**MetadataObjects**, can be grouped into related collections called **MetadataModels** that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol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

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

#### 1.4 Relationship to Other Protocols

This protocol uses the **Simple Object Access Protocol (SOAP)** message protocol for formatting request and response messages, as described in [\[SOAP1.2/1\]](#), and [\[SOAP1.2/2\]](#). It transmits those messages using the **Hypertext Transfer Protocol (HTTP)**, as described in [\[RFC2616\]](#), or the **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

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



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

#### 1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) Uniform Resource Identifier (URI)**s 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 either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#). The protocol server endpoint is formed by appending "/bdcservice.svc" to the URL of the site. For example: `http://www.example.com/f0e82c9b92634081a8138bc38a967050/bdcservice.svc`

The protocol client obtains the requisite **ApplicationClassId** and **ApplicationVersion** values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

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

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



## 1.6 Applicability Statement

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

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

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

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

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

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

## 2 Messages

In the following sections, the schema definition might 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 or HTTPS.

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

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

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

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

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

### 2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [\[XMLSCHEMA1\]](#) 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>	
q10	<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>	

Prefi x	Namespace URI	Reference
tns1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	
tns2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	
tns3	Microsoft.BusinessData.SharePoint	
tns4	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific	
tns5	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetaDataModel.Constants	
tns6	Microsoft.SharePoint.BusinessData	
tns7	http://www.microsoft.com/Office/2009/BusinessDataCatalog	
tns8	http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports	
wsa w	http://www.w3.org/2006/05/addressing/wsdl	
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 **Augmented Backus-Naur Form (ABNF)** representation as specified in [\[RFC5234\]](#).

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

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

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

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

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

Complex type	Description
<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> error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section <a href="#">2.2.4</a> .
<b>AccessDeniedExceptionState</b>	The <b>AccessDeniedExceptionState</b> error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section <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> error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>ArgumentNullException</b>	The <b>ArgumentNullException</b> error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type MUST be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>ArgumentOutOfRangeException</b>	The <b>ArgumentOutOfRangeException</b> error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type MUST be included only as part of a SOAP fault, as specified in section <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

Complex type	Description
	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 <b>localized name</b> .
<b>ArrayOfMethodInstanceStruct</b>	The <b>ArrayOfMethodInstanceStruct</b> complex type is a list of complex types, each of which represents a MethodInstance.
<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 <b>Property</b> .
<b>ArrayOfstring</b>	The <b>ArrayOfstring</b> complex type represents a list of <b>xs:string</b> 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 <b>ArrayOfunsignedInt</b> complex type represents a list of unsigned <b>xs:unsignedInt</b> as specified in <a href="#">[XMLSCHEMA2]</a> .
<b>AssociationGroupStruct</b>	<p>The <b>AssociationGroupStruct</b> complex type contains information about an <b>AssociationGroup</b>. Each Association referenced by the <b>AssociationReferences</b> contained by the <b>AssociationGroup</b> is identified by the values in the same index of the following lists:</p> <ul style="list-style-type: none"> <li>▪ associationEntityNames</li> <li>▪ associationEntityNamespaces</li> <li>▪ associationNames</li> <li>▪ associationIds</li> </ul>
<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 whose name is at the same index of the <b>sourceEntityNames</b> element.

Complex type	Description
<b>BdcException</b>	The <b>BdcException</b> error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type <b>MUST</b> be included only as part of a <b>SOAP fault</b> , as specified in section <a href="#">2.2.4</a> .
<b>BdcExceptionState</b>	The <b>BdcExceptionState</b> error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type <b>MUST</b> be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>ComplexValueStruct</b>	The <b>ComplexValueStruct</b> complex type <b>MUST</b> contain information about the data types related to the element containing this complex type.
<b>ConcurrentModificationExceptionState</b>	The <b>ConcurrentModificationExceptionState</b> error complex type contains information about a protocol-server-side error caused by concurrent modification of a MetadataObject. This complex type <b>MUST</b> only be included as part of a SOAP fault as specified in section <a href="#">2.2.4</a> .
<b>DataClassStruct</b>	The <b>DataClassStruct</b> complex type <b>MUST</b> 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> error complex type contains information about a protocol-server-side error caused by duplication of a MetadataObject. This complex type <b>MUST</b> only be included as part of a SOAP fault, as specified in 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> error complex type contains information about a protocol-server-side error caused when a MetadataObject exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type <b>MUST</b> only be included as part of a SOAP fault as section <a href="#">2.2.4</a> .
<b>Exception</b>	The <b>Exception</b> error complex type contains information about a protocol-server-side error. This complex type <b>MUST</b> be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>FilterDescriptorStruct</b>	The <b>FilterDescriptorStruct</b> complex type contains information about a FilterDescriptor.

Complex type	Description
<b>IdentifierStruct</b>	The <b>IdentifierStruct</b> complex type contains information about an Identifier.
<b>InvalidMetadataObjectExceptionState</b>	The <b>InvalidMetadataObjectExceptionState</b> error complex type contains information about a protocol-server-side error caused by invalid attributes of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section <a href="#">2.2.4</a> .
<b>InvalidMetadataPropertyExceptionState</b>	The <b>InvalidMetadataPropertyExceptionState</b> error complex type contains information about a protocol-server-side error caused by an invalid <b>Property</b> detected in the set of <b>Properties</b> of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section <a href="#">2.2.4</a> .
<b>InvalidOperationException</b>	The <b>InvalidOperationException</b> error complex type contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>LobSystemInstanceStruct</b>	The <b>LobSystemInstanceStruct</b> 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> error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a MetadataModel constraint in the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>MetadataObjectNotFoundExceptionState</b>	The <b>MetadataObjectNotFoundExceptionState</b> error complex type contains information about a protocol-server-side error caused when a requested MetadataObject is not found. This complex type MUST only be included as part of a SOAP fault, as specified in section <a href="#">2.2.4</a> .
<b>MetadataObjectStruct</b>	The <b>MetadataObjectStruct</b> complex type 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.

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



```

    <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
  </xs:sequence>
</xs:complexType>

```

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

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

**principalName:** The encoded name of a **security principal (1)**. This element MUST be present. The value of this element MUST be as specified for the **AttributeValue** of the **Security** element of an RSTR message, as specified in [\[MS-SPSTWS\]](#) section 2.2.

**rights:** The permissions available to a security principal (1) to perform operations on or by using a MetadataObject. This element MUST be present. The value of this element MUST be the bitwise-OR operation of the values of the corresponding rights in the **BdcRights** enumeration.

### 2.2.4.2 AccessDeniedException

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

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

```

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

```

### 2.2.4.3 AccessDeniedExceptionState

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

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

```

<xs:complexType name="AccessDeniedExceptionState"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="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 (1) 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="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

#### 2.2.4.5 ActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
        <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

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

#### 2.2.4.6 AdministrationMetadataCatalogStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="AdministrationMetadataCatalogStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

#### 2.2.4.7 ArgumentException

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

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

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

#### 2.2.4.8 ArgumentNullException

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

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

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

#### 2.2.4.9 ArgumentOutOfRangeException

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

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

```
<xs:complexType name="ArgumentOutOfRangeException"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="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="tns6: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="tns6: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="tns6: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="tns6: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="tns6:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

### 2.2.4.15 ArrayOfMethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfMethodInstanceStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
      nillable="true" type="tns6: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="tns6: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="tns6: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="tns6:TypeDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.20 ArrayOfunsignedInt

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

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

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

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

#### 2.2.4.21 AssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

- associationEntityNames
- associationEntityNamespaces

- associationNames
- associationIds

```
<xs:complexType name="AssociationGroupStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="associationEntityNames" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="associationEntityNamespaces" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="associationIds" nillable="true" type="q10:ArrayOfunsignedInt"/>
        <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="associationNames" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

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

#### 2.2.4.22 AssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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



```

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

```

**\_associationName:** The name of the Association referenced by the **AssociationReference**. The name MUST [<5>](#) have at most 255 Unicode characters.

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

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

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

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

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

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

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

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

**partitionId:** The **partition (1)** of the **Association** referenced by the **AssociationReference**.

### 2.2.4.23 AssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q10:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**associationGroupId:** The MetadataObjectId of the AssociationGroup which the **Association** is referenced by. If the **Association** is referenced by an **AssociationGroup**, the value of this element MUST be the **MetadataObjectId** of the referencing **AssociationGroup**. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range 0-0x7fffffff.

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

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

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

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

#### 2.2.4.24 BdcException

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

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

```

<xs:complexType name="BdcException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns: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** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#).

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

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

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

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

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

## 2.2.4.26 ComplexValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

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

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

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

#### 2.2.4.27 ConcurrentModificationExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ConcurrentModificationExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.SharePoint.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="tns6: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:** Specifies whether the **DataClass** is active. The value of this element MUST be "true" if the **DataClass** is active; otherwise it MUST be "false".

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

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

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

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

### 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="tns6: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**. The value of this element **MUST** have at least 1 and at most 255 Unicode characters.

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

### 2.2.4.30 DuplicateMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="DuplicateMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns: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 not.

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

### 2.2.4.31 EntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="EntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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**.

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

### 2.2.4.32 ExceededMetadataObjectLimitExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

### 2.2.4.33 Exception

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

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

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

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

### 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="tns6: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)** operated on by the **FilterDescriptor**. This value MUST be either a path (as specified in [\[MS-BDCMFFS\]](#) section [2.1.5.5](#)), NULL, or an empty string. This value is understood by the applications using the protocol client, and MUST NOT carry any significance for the protocol server.

**filterType:** The **FilterType** (section [2.2.5.5](#)) 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="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

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

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

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from 0 through 65,535.
System.UInt32	A number in the range from 0 through 4,294,967,295.
System.UInt64	A number in the range from 0 through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. to 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 800 nanoseconds through positive 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from -3.402823e38 to 3.402823e38.
System.Double	A double-precision number in the range from -1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN (not a number).
System.Decimal	A number in the range from -79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from 0 through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A <b>GUID</b> .
System.Boolean	A bit.



## 2.2.4.36 InvalidMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="InvalidMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.SharePoint.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>
```

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

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

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

## 2.2.4.37 InvalidMetadataPropertyExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="InvalidMetadataPropertyExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.SharePoint.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>
```

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

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

### 2.2.4.38 InvalidOperationException

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

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

```
<xs:complexType name="InvalidOperationException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="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="tns6: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="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

## 2.2.4.41 LocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

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

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

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

## 2.2.4.42 MetadataException

**Namespace:** Microsoft.BusinessData.SharePoint

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

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

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

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

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

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

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

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

#### 2.2.4.43 MetadataObjectNotFoundExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

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

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

**isCached:** Specifies the frequency of use of a **MetadataObject** by the protocol client. Protocol clients can use this element as a recommendation on whether to cache a **MetadataObject** in

memory. Whether the client considers a **MetadataObject** to be frequently used or not is left to its determination and is outside the scope of this protocol. The value **MUST** be in the following table.

Value	Description
false	The <b>MetadataObject</b> is infrequently used.
true	The <b>MetadataObject</b> is frequently used.

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

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

**partitionId:** The partition (1) of the **MetadataObject**. This element **MUST** be present.

#### 2.2.4.45 MethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Value	Description
false	The <b>MethodInstance</b> is not the default.
true	The <b>MethodInstance</b> is the default.

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

**methodInstanceType:** The type of the **MethodInstance**. This element **MUST** be present. The value of this element **MUST NOT** be NULL. The value **MUST** be a **MethodInstanceType** (section [2.2.5.7](#)).

**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="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

**lobName:** The name of the line-of-business (LOB) system operation that is represented by this **Method**. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, a LOB system operation named "GetCus\_1" can be represented by a **Method** named "Get Customer". The **lobName** element of this **Method** needs to be set to "GetCus\_1".

## 2.2.4.47 ModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

## 2.2.4.48 PackageFormatExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **PackageFormatExceptionState** error complex type contains information about a protocol-server-side error caused when specified XML does not conform to the Business Data Connectivity

Model File Format as specified in [\[MS-BDCMFFS\]](#) or the MetadataModel contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) has invalid configuration of MetadataObjects or their attributes. This complex type MUST only be included as part of a SOAP fault as specified in section [2.2.4](#).

```
<xs:complexType name="PackageFormatExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q10: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 occurred.

#### 2.2.4.49 ParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

#### 2.2.4.50 PropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

#### 2.2.4.51 ProxyGenerationResult

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

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

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

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



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

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

#### 2.2.4.52 SafetyNetStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="SafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
    <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
    <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
    <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
  </xs:sequence>
  <xs:element
    xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.SystemSpecific"
    minOccurs="0" name="throttleScope" type="tns4:ThrottleScope"/>
  <xs:element
    xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.SystemSpecific"
    minOccurs="0" name="throttleType" type="tns4:ThrottleType"/>
</xs:complexType>
```

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

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

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

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

An **empty GUID** designates a fallback throttle configuration setting. For a given combination of **ThrottleScope** (section [2.2.5.10](#)) and **ThrottleType** (section [2.2.5.11](#)), the protocol server **MUST** use the fallback throttle configuration setting corresponding to the runtime values of **ThrottleScope** and **ThrottleType**, if a throttle configuration setting corresponding to the runtime values of **ThrottleScope**, **ThrottleType** and **ProxyId** does not exist.

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

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

### 2.2.4.53 SystemException

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

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

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

### 2.2.4.54 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="tns6: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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

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

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

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

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

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

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

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

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

**flags:** The **TypeDescriptorFlags** (section [2.2.5.12](#)) of the **TypeDescriptor**.

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

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

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

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

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

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

**parentTypeDescriptorId:** The **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. If the **TypeDescriptor** is a root **TypeDescriptor**, the value MUST be set to zero. Otherwise, the value MUST be the **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. The value of this element MUST be in the range 0-0x7ffffff.

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

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

rule = convertRule / normalizeRule

convertRule = %x54 fromType HTAB toType CRLF Culture

normalizeRule = %x44 ( local / unspecified / UTC)

UTC = %x42

local = %x43

unspecified = %x44

fromType = AssemblyQualifiedName
toType = AssemblyQualifiedName
```

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

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

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

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

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

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

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

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

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

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

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

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

If the previous conditions are not met, an implementation-specific<14> module MUST be used.

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

```

    <xs:element name="_Major" type="xs:int"/>
    <xs:element name="_Minor" type="xs:int"/>
    <xs:element name="_Revision" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

```

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

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

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

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

## 2.2.5 Simple Types

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

Simple type	Description
<b>CacheUsage</b>	The <b>CacheUsage</b> simple type specifies how the protocol client accesses EntityInstance data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache <b>EntityInstance</b> data, the protocol client <b>MUST</b> ignore this value.
<b>char</b>	The <b>char</b> simple type represents a Unicode character. This type <b>MUST NOT</b> be used by this protocol.
<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. This type <b>MUST NOT</b> be used by this protocol.
<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>	The <b>MethodInstanceType</b> simple type contains information about the type of a MethodInstance.
<b>PackageContents</b>	The <b>PackageContents</b> simple type specifies a subset of the types of data contained by a MetadataModel.
<b>SystemType</b>	The <b>SystemType</b> simple type specifies the type of line-of-business (LOB) system that a LobSystem is representing.
<b>ThrottleScope</b>	The <b>ThrottleScope</b> simple type specifies the type of LobSystem to which a throttle configuration setting is applied.
<b>ThrottleType</b>	The <b>ThrottleType</b> simple type specifies the throttle configuration setting that is used to restrict operations performed on the line-of-business (LOB) system.
<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

Simple type	Description
	TypeDescriptor.

### 2.2.5.1 CacheUsage

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

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

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

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

Value	Meaning
Default	The protocol client <b>MUST</b> make an implementation-specific choice to use any one of the other behaviors listed in this table, based on its capabilities.
Online	The protocol client <b>MUST</b> bypass the <b>EntityInstance</b> data cache for all operations.
Cached	The protocol client <b>MUST</b> use the <b>EntityInstance</b> data cache to perform create, update, and delete operations. If the requested data is available in the <b>EntityInstance</b> data cache, the protocol client <b>MUST</b> use the data in the cache. Otherwise, the protocol client <b>MUST</b> bypass the <b>EntityInstance</b> data cache to obtain the data and put the data in the <b>EntityInstance</b> data cache for later use.
Offline	The protocol client <b>MUST</b> use the <b>EntityInstance</b> 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. This type **MUST NOT** be used by this protocol.

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

### 2.2.5.3 DirectionType

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

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

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

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

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

#### 2.2.5.4 duration

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

The **duration** simple type represents a duration. This type **MUST NOT** be used by this protocol.

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



```

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

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

### 2.2.5.6 guid

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

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

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

### 2.2.5.7 MethodInstanceType

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

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

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

```

<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> . This type of <b>MethodInstance</b> requires an input.
GenericInvoker	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>GenericInvoker</b> .
IdEnumerator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as an <b>IdEnumerator</b> .
Scalar	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>Scalar</b> .
AccessChecker	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as an <b>AccessChecker</b> . This type of <b>MethodInstance</b> requires an input.
Creator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>Creator</b> .
Updater	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as an <b>Updater</b> . This type of <b>MethodInstance</b> requires an input.
Deleter	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>Deleter</b> . This type of <b>MethodInstance</b> requires an input.
ChangedIdEnumerator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>ChangedIdEnumerator</b> . This type of <b>MethodInstance</b> requires an input.
DeletedIdEnumerator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>DeletedIdEnumerator</b> . This type of <b>MethodInstance</b> requires an input.
AssociationNavigator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as an <b>AssociationNavigator</b> . This type of <b>MethodInstance</b> requires an input.
Associator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as an <b>Associator</b> . This type of <b>MethodInstance</b> requires an input.
Disassociator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>Disassociator</b> . This type of <b>MethodInstance</b> requires an input.

Value	Meaning
StreamAccessor	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>StreamAccessor</b> . This type of <b>MethodInstance</b> requires an input.
BinarySecurityDescriptorAccessor	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>BinarySecurityDescriptorAccessor</b> . This type of <b>MethodInstance</b> requires an input.
BulkSpecificFinder	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>BulkSpecificFinder</b> . This type of <b>MethodInstance</b> requires an input.
BulkAssociatedIdEnumerator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>BulkAssociatedIdEnumerator</b> . This type of <b>MethodInstance</b> requires an input.
BulkAssociationNavigator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>BulkAssociationNavigator</b> . This type of <b>MethodInstance</b> requires an input.
BulkIdEnumerator	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>BulkIdEnumerator</b> , This type of <b>MethodInstance</b> requires an input.
EventSubscriber	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>EventSubscriber</b> . This type of <b>MethodInstance</b> requires an input.
EventUnsubscriber	Indicates that the protocol client MUST interpret the <b>MethodInstance</b> as a <b>EventUnsubscriber</b> . This type of <b>MethodInstance</b> requires an input.

### 2.2.5.8 PackageContents

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

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

### 2.2.5.9 SystemType

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

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

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

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

Value	Meaning
Database	The represented line-of-business (LOB) system is a database.
WebService	The represented line-of-business (LOB) system is a <b>Web service</b> .
Custom	The represented line-of-business (LOB) system has business logic external to the protocol implementation that manages the connection and data transfer.
Wcf	The represented line-of-business (LOB) system is a service for which the endpoint (4) URI, the binding, and the contract are specified.
DotNetAssembly	The represented line-of-business (LOB) system is a Business Logic Module. <a href="#">&lt;15&gt;</a>

Value	Meaning
OData	The represented line-of-business (LOB) system is an <b>OData service</b> .

### 2.2.5.10 ThrottleScope

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

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

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

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

Value	Meaning
Global	This setting is used globally, independent of the type of the <b>LobSystem</b> .
Database	This setting is used for <b>LobSystems</b> that have a <b>SystemType</b> (section <a href="#">2.2.5.9</a> ) value of "Database".
WebService	This setting is used for <b>LobSystems</b> that have a <b>SystemType</b> (section <a href="#">2.2.5.9</a> ) value of "WebService".
Wcf	The setting is used for <b>LobSystems</b> that have a <b>SystemType</b> (section <a href="#">2.2.5.9</a> ) value of "Wcf".
Custom	This setting is used for <b>LobSystems</b> that have a <b>SystemType</b> (section <a href="#">2.2.5.9</a> ) value of "Custom".
OData	The setting is used for <b>LobSystems</b> that have a <b>SystemType</b> (section <a href="#">2.2.5.9</a> ) value of "OData".

### 2.2.5.11 ThrottleType

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

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

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

```

    <xs:enumeration value="Timeout"/>
    <xs:enumeration value="MetadataSize"/>
    <xs:enumeration value="ModelSize"/>
    <xs:enumeration value="MaxNumberOfModels"/>
  </xs:restriction>
</xs:simpleType>

```

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

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

### 2.2.5.12 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>

```

```

    </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 <b>TypeDescriptor</b> MUST be considered a field (4) for calling a Creator.
UpdaterField	This <b>TypeDescriptor</b> MUST be considered a field (4) for calling an Updater.
PreUpdaterField	This <b>TypeDescriptor</b> 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 <b>TypeDescriptor</b> when calling an <b>Updater</b> .
IsCollection	This <b>TypeDescriptor</b> MUST be interpreted as a collection of data structures.
ReadOnly	The protocol client MUST prevent values in the data structures corresponding to this <b>TypeDescriptor</b> from being modified.
Significant	The protocol client MUST use the values in the data structures corresponding to this <b>TypeDescriptor</b> 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 <b>TypeDescriptor</b> 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 <b>TypeDescriptor</b> as the input for the <b>SortingFilter</b> . When this flag is not set on any <b>TypeDescriptor</b> , 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, Status Code Definitions.

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

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

### 3.1 Server Details

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

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

In any operation request, the protocol client MAY [<17>](#) request that the protocol server acknowledge the security principal (1) in whose context it is operating as a privileged user by including a SOAP header with Name "IsTenantAdmin", Namespace "Bdc", type "Bool", and value "true". The protocol server MUST fulfill the request acting as though the privileged user were authorized to edit or set permissions on any MetadataObject required by the operation.

#### 3.1.1 Abstract Data Model

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

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

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

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

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

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

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

#### **Property**

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

#### **LocalizedName**

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

#### **AccessControlEntry**

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

#### **MetadataObject**

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

#### **Model**

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

#### **LobSystem**

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

#### **LobSystemInstance**

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

#### **DataClass**

- Represents a **DataClass**.

- Has the following attributes: **id**, **name**, **isCached**, **Version**, **objectVersion**, **partitionId**, **active**, **lobSystemId**, **modelId**, and **namespace**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more Methods, and zero or more MethodInstances.
- Contained by exactly one **LobSystem**.
- At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

### Entity

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

### Identifier

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

### Method

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

### MethodInstance

- Represents a **MethodInstance**.

- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **methodId**, **methodInstanceType**, **returnTypeDescriptorId**, and **isDefault**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or one **TypeDescriptors**.
- Contained by exactly one **Method**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.
- If the **MethodInstance** has a **ReturnPropertyDescriptor**, the **MethodInstance** references the **TypeDescriptor** that corresponds to the **ReturnPropertyDescriptor**. Otherwise, the **MethodInstance** references no **TypeDescriptors**.

### Association

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

### Parameter

- Represents a **Parameter**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **direction**, **partitionId**, **methodId**, **ordinalNumber**, and **rootTypeDescriptorId**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **TypeDescriptors**.
- Contained by exactly one **Method**.

- If the **Parameter** contains one or more **TypeDescriptors**, exactly one **TypeDescriptor** is not contained by any other **TypeDescriptor**. The **TypeDescriptor** that is not contained by any other **TypeDescriptor** corresponds to the root **TypeDescriptor** of the **Parameter**.

### **TypeDescriptor**

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

### **FilterDescriptor**

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

### **DefaultValue**

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

### **AssociationGroup**

- Represents an **AssociationGroup**.

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

#### **AssociationReference**

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

#### **Action**

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

#### **ActionParameter**

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

#### **CacheVersionStamp**

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

#### **ThrottleConfigurationSetting**

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

The permissions that apply to a given object are specified by the ACEs it contains. If the given object does not contain any ACEs, the permission that applies to the object that contains the given

object are used instead. If the given object is not contained by any other objects, then the protocol server can assume implementation-specific set of security principals (1) have necessary permissions on the object.

### 3.1.2 Timers

None.

### 3.1.3 Initialization

None.

### 3.1.4 Message Processing Events and Sequencing Rules

The protocol client is associated with a metadata partition (1) (referred to in the following sections as the "protocol client metadata partition") using an implementation-specific mechanism.

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

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

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



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

- [AddEntityToModel](#)
- [ClearLocalizedNames](#)
- [ClearProperties](#)
- [CopyAclAcrossChildren](#)
- [CopyAclToSetting](#)
- [DeleteNoCascade](#)
- [DeleteProxyAssemblyForLobSystem](#)
- [ExportPackage](#)
- [GetAccessControlEntries](#)
- [GetAllLocalizedNamesForMetadataObjectStruct](#)
- [GetAllPropertiesForMetadataObjectStruct](#)
- [GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#)
- [GetFieldTypeDescriptorsByMethodInstance](#)
- [GetLobSystemDataByLobSystem](#)
- [GetTypeReflectorTypeNameForParameter](#)
- [ImportPackage](#)
- [ImportPackageWithProgress](#)
- [MetadataObjectCreate](#)
- [MetadataObjectMergeXml](#)
- [MetadataObjectReadXml](#)
- [MetadataObjectWriteXml](#)
- [ModelReadXml](#)
- [ReadSlicedXml](#)
- [RemoveEntityFromModel](#)
- [RemoveLocalizedName](#)
- [RemoveProperty](#)
- [SaveLocalizedName](#)

- [SaveProperty](#)
- [SetAccessControlEntries](#)
- [SetDefaultActionForEntity](#)
- [TypeDescriptorCreate](#)
- [TypeDescriptorMergeXml](#)
- [TypeDescriptorReadXml](#)

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

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

Operation	MetadataObjects
<a href="#">Activate</a>	The Entity specified by the <b>entityStruct</b> element.
<a href="#">AddAssociationReferenceToAssociationGroup</a>	The AssociationGroup specified by the <b>associationGroupStruct</b> element.
<a href="#">BulkSwitchActiveOrValidate</a>	The <b>Entities</b> specified by the <b>entityStructs</b> element.
<a href="#">Deactivate</a>	The <b>Entity</b> specified by the <b>entityStruct</b> element.
<a href="#">DeleteAssociationReferenceFromAssociationGroup</a>	The <b>AssociationGroup</b> that contains the AssociationReference specified by the <b>associationReferenceStruct</b> element.
<a href="#">Update</a>	The <b>MetadataObject</b> 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>	The <b>Activate</b> operation activates the specified Entity.
<b>AddAssociationReferenceToAssociationGroup</b>	The <b>AddAssociationReferenceToAssociationGroup</b> operation creates the specified AssociationReference in the specified AssociationGroup.
<b>AddEntityToModel</b>	The <b>AddEntityToModel</b> operation adds a reference to the specified Entity to the specified Model.
<b>AddThrottlingRule</b>	The <b>AddThrottlingRule</b> operation adds the specified throttle configuration setting to the metadata store.
<b>BulkSwitchActiveOrValidate</b>	The <b>BulkSwitchActiveOrValidate</b> operation changes the active version of the specified set of Entities or validates the specified <b>Entities</b> for the

Operation	Description
	purpose of changing the active versions and identifying 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>	The <b>ClearLocalizedNames</b> operation removes all localized names of the specified MetadataObject from the specified Setting.
<b>ClearProperties</b>	The <b>ClearProperties</b> operation removes all <b>Properties</b> of the specified MetadataObject from the specified Setting.
<b>CopyAclAcrossChildren</b>	<p>The <b>CopyAclAcrossChildren</b> operation clears the ACEs of the descendent MetadataObjects of a specified <b>MetadataObject</b> and copies the ACEs of the specified <b>MetadataObject</b> to the descendent <b>MetadataObjects</b>. A given <b>MetadataObject</b> is a descendent of the specified <b>MetadataObject</b> if the <b>MetadataObject</b> that contains the given <b>MetadataObject</b> is also a descendent of the specified <b>MetadataObject</b> or the <b>MetadataObject</b> is contained by the specified <b>MetadataObject</b>.</p> <p>If the specified <b>MetadataObject</b> is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section <a href="#">3.1</a> is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent <b>MetadataObjects</b> if the security principal (1) in whose context the protocol client is operating is not authorized to edit the <b>LobSystem</b>.</p>
<b>CopyAclAcrossChildrenForSetting</b>	<p>The <b>CopyAclAcrossChildrenForSetting</b> operation clears the ACEs in a specified Setting on the descendent MetadataObjects of the specified <b>MetadataObject</b> and copies 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>.</p> <p>If the specified <b>MetadataObject</b> is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section <a href="#">3.1</a> is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent <b>MetadataObjects</b> if the security principal (1) in whose context the protocol client is operating is not authorized to edit</p>

Operation	Description
	the <b>LobSystem</b> .
<b>CopyAclToSetting</b>	The <b>CopyAclToSetting</b> operation deletes the ACEs in the specified non-default Setting of the specified MetadataObject and copies the ACEs in the default <b>Setting</b> of the specified <b>MetadataObject</b> to the specified <b>Setting</b> of the specified <b>MetadataObject</b> .
<b>Deactivate</b>	The <b>Deactivate</b> operation sets an active version of an Entity to not active.
<b>Delete</b>	The <b>Delete</b> operation deletes the specified MetadataObject.
<b>DeleteAssociationReferenceFromAssociationGroup</b>	The <b>DeleteAssociationReferenceFromAssociationGroup</b> operation removes an AssociationReference from an AssociationGroup by deleting the <b>AssociationReference</b> .
<b>DeleteDefaultValueForTypeDescriptor</b>	The <b>DeleteDefaultValueForTypeDescriptor</b> operation deletes the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.
<b>DeleteNoCascade</b>	The <b>DeleteNoCascade</b> operation deletes the specified MetadataObject without deleting the <b>MetadataObjects</b> it references.
<b>DeleteProxyAssemblyForLobSystem</b>	The <b>DeleteProxyAssemblyForLobSystem</b> operation deletes a Business Logic Module <a href="#">&lt;21&gt;</a> associated with the specified LobSystem.
<b>EntityCreate</b>	The <b>EntityCreate</b> operation creates 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>The <b>ExportPackage</b> operation retrieves an XML representation of <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b>, <b>Localized names</b>, <b>Properties</b>, and <b>ACEs</b> corresponding to <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b> from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ If "Model" value is set for the <b>packageContents</b> element, the XML MUST conform to the Business Data Connectivity Model file format specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34.</li> <li>▪ If "Model" value is not set for the <b>packageContents</b> element, the XML MUST conform to the Business Data Connectivity Model file format specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.</li> </ul> <p>If the <b>CameThroughRemoteAdminService</b> header specified in section <a href="#">3.1</a> is present in the SOAP</p>

Operation	Description
	request, and if the specified <b>MetadataModel</b> contains LobSystems that the security principal (1) 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.
<b>GenerateProxyAssemblyForLobSystem</b>	The <b>GenerateProxyAssemblyForLobSystem</b> operation forces the protocol server to create an implementation-specific Business Logic Module<22> for the specified LobSystem to connect to the LOB system described by the specified <b>LobSystem</b> . If a Business Logic Module is already available for the specified <b>LobSystem</b> , this operation MUST NOT create another Business Logic Module and MUST complete successfully.
<b>GetAccessControlEntries</b>	The <b>GetAccessControlEntries</b> operation retrieves 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 set to "true", the protocol server MUST retrieve ACEs for the specified <b>MetadataObject</b> from the default <b>Setting</b> .
<b>GetActionById</b>	The <b>GetActionById</b> operation retrieves the specified Action.
<b>GetActionParameterById</b>	The <b>GetActionParameterById</b> operation retrieves the specified ActionParameter.
<b>GetActionParametersForAction</b>	The <b>GetActionParametersForAction</b> operation retrieves the ActionParameters of the specified Action.
<b>GetActionsForEntity</b>	The <b>GetActionsForEntity</b> operation retrieves the Actions of the specified Entity.
<b>GetAllLocalizedNames</b>	The <b>GetAllLocalizedNames</b> operation retrieves all localized names of the specified MetadataObject.
<b>GetAllLocalizedNamesForMetadataObjectStruct</b>	The <b>GetAllLocalizedNamesForMetadataObjectStruct</b> operation retrieves all localized names of the specified MetadataObject for the specified Setting.
<b>GetAllPartitionIds</b>	The <b>GetAllPartitionIds</b> operation retrieves all distinct partition (1) identifiers.
<b>GetAllProperties</b>	The <b>GetAllProperties</b> operation retrieves all <b>Properties</b> of the specified MetadataObject and the specified Setting.
<b>GetAllPropertiesForMetadataObjectStruct</b>	The <b>GetAllPropertiesForMetadataObjectStruct</b> operation retrieves all <b>Properties</b> of the specified MetadataObject from the specified Setting.

Operation	Description
<b>GetAssociationById</b>	The <b>GetAssociationById</b> operation retrieves the Association with the specified MetadataObjectId.
<b>GetAssociationGroupById</b>	The <b>GetAssociationGroupById</b> operation retrieves the AssociationGroup with the specified MetadataObjectId.
<b>GetAssociationGroupsForEntity</b>	The <b>GetAssociationGroupsForEntity</b> operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId.
<b>GetAssociationMembersInRole</b>	The <b>GetAssociationMembersInRole</b> operation retrieves the source or destination Entities of the specified Association.
<b>GetAssociationReferencesForAssociationGroup</b>	The <b>GetAssociationReferencesForAssociationGroup</b> operation retrieves the AssociationReferences contained by the specified AssociationGroup.
<b>GetAssociationsForDataClass</b>	The <b>GetAssociationsForDataClass</b> operation retrieves the Associations that are contained by the specified DataClass.
<b>GetAssociationsForEntityAndRole</b>	The <b>GetAssociationsForEntityAndRole</b> operation retrieves the Associations that reference the specified Entity as <b>Association</b> source or <b>Association</b> destination.
<b>GetAssociationsForMethod</b>	The <b>GetAssociationsForMethod</b> operation retrieves the Associations that are contained by the specified Method.
<b>GetCacheInvalidationRecordsSince</b>	The <b>GetCacheInvalidationRecordsSince</b> operation retrieves the cache version stamps, that were modified after the specified time.
<b>GetChildTypeDescriptorsForTypeDescriptor</b>	The <b>GetChildTypeDescriptorsForTypeDescriptor</b> operation retrieves the TypeDescriptors contained by the specified <b>TypeDescriptor</b> .
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b>	The <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> operation retrieves the TypeDescriptors that reference Identifiers and are descendants of the specified <b>TypeDescriptor</b> . A <b>TypeDescriptor</b> is a descendent of the specified <b>TypeDescriptor</b> if the <b>TypeDescriptor</b> that contains the <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> . <a href="#">&lt;23&gt;</a>
<b>GetDataClassById</b>	The <b>GetDataClassById</b> operation retrieves the DataClass with the specified MetadataObjectId.
<b>GetDataClassesForSystem</b>	The <b>GetDataClassesForSystem</b> operation retrieves DataClasses contained by the specified LobSystem.
<b>GetDefaultValuesForTypeDescriptor</b>	The <b>GetDefaultValuesForTypeDescriptor</b>

Operation	Description
	operation retrieves the DefaultValues of the specified TypeDescriptor.
<b>GetEntitiesForAssociationAndRole</b>	The <b>GetEntitiesForAssociationAndRole</b> operation retrieves the Entities that perform the role of source or destination for the specified Association.
<b>GetEntitiesForSystem</b>	The <b>GetEntitiesForSystem</b> operation retrieves Entities of the specified LobSystem.
<b>GetEntitiesLikeNameAndNamespace</b>	<p>The <b>GetEntitiesLikeNameAndNamespace</b> operation retrieves the Entities that match the specified wildcard patterns for name and namespace.</p> <p>An <b>Entity</b> matches the pattern specified by <b>wildcardedName</b> if, and only if, <b>wildcardedName</b> matches the name of the <b>Entity</b>, the localized name of the <b>Entity</b> with language code identifier (LCID) set to zero, 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>	The <b>GetEntitiesReferencedByModelId</b> operation retrieves Entities that are referenced by the specified Model.
<b>GetEntityById</b>	The <b>GetEntityById</b> operation retrieves the Entity with the specified MetadataObjectId.
<b>GetEntityCount</b>	The <b>GetEntityCount</b> operation retrieves the number of Entities that are contained by the specified LobSystem.
<b>GetEntityNameAndNamespacesForAssociationAndRole</b>	The <b>GetEntityNameAndNamespacesForAssociationAndRole</b> operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only <b>Entities</b> in the specified association role of source or destination are returned.
<b>GetEntityWithNameAndNamespace</b>	The <b>GetEntityWithNameAndNamespace</b> operation retrieves the active Entity with the specified name and namespace in the specified partition (1).
<b>GetEntityWithNameAndNamespaceAndVersion</b>	The <b>GetEntityWithNameAndNamespaceAndVersion</b> operation retrieves the Entity with the specified name, namespace, and version.
<b>GetFieldTypeDescriptorsByMethodInstance</b>	The <b>GetFieldTypeDescriptorsByMethodInstance</b> operation retrieves TypeDescriptors that correspond to fields (4) of the MethodInstance with the specified name in the specified Entity.
<b>GetFilterDescriptorById</b>	The <b>GetFilterDescriptorById</b> operation retrieves the FilterDescriptor with the specified MetadataObjectId.

Operation	Description
<b>GetFilterDescriptorsForMethod</b>	The <b>GetFilterDescriptorsForMethod</b> operation retrieves the FilterDescriptors contained by the specified Method.
<b>GetIdentifierById</b>	The <b>GetIdentifierById</b> operation retrieves the Identifier with the specified MetadataObjectId.
<b>GetIdentifiersForEntity</b>	The <b>GetIdentifiersForEntity</b> operation retrieves the Identifiers contained by the specified Entity.
<b>GetImportProgress</b>	The <b>GetImportProgress</b> operation retrieves the progress of an ImportPackageWithProgress operation, using the unique identifier provided by the client at the creation of the import operation.
<b>GetLevelForTypeDescriptor</b>	The <b>GetLevelForTypeDescriptor</b> operation retrieves the depth of the specified TypeDescriptor in the <b>TypeDescriptor</b> tree. The <b>TypeDescriptor</b> tree for a specified <b>TypeDescriptor</b> consists of the specified <b>TypeDescriptor</b> with depth zero. 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>	The <b>GetLobSystemAllAssembliesBytes</b> operation retrieves the Business Logic Modules associated with the specified LobSystem if the <b>systemType</b> element of the specified <b>LobSystem</b> is not set to "Custom". If the <b>systemType</b> element of the specified <b>LobSystem</b> is set to "Custom", the behavior of this operation is implementation-specific <a href="#">&lt;24&gt;</a> .
<b>GetLobSystemById</b>	The <b>GetLobSystemById</b> operation retrieves the LobSystem with the specified MetadataObjectId.
<b>GetLobSystemByName</b>	The <b>GetLobSystemByName</b> operation retrieves the specified LobSystem.
<b>GetLobSystemDataByLobSystem</b>	The <b>GetLobSystemDataByLobSystem</b> operation retrieves Business Logic Modules <a href="#">&lt;25&gt;</a> associated with the specified LobSystem.
<b>GetLobSystemInstanceById</b>	The <b>GetLobSystemInstanceById</b> operation retrieves the LobSystemInstance with the specified MetadataObjectId.
<b>GetLobSystemInstancesForLobSystem</b>	The <b>GetLobSystemInstancesForLobSystem</b> operation retrieves the list of LobSystemInstances of the specified LobSystem. If the CameThroughRemoteAdminService header specified in section <a href="#">3.1</a> is present in the SOAP request, only the <b>LobSystemInstances</b> that the security principal (1) in whose context the protocol client is operating is authorized to read <a href="#">&lt;26&gt;</a> that are also contained by the specified <b>LobSystem</b> are retrieved.
<b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>	The <b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>



Operation	Description
	<p><b>mId</b> operation retrieves the implementation-specific Business Logic Module&lt;27&gt; associated with the specified LobSystem.</p>
<p><b>GetLobSystemsLikeName</b></p>	<p>The <b>GetLobSystemsLikeName</b> operation retrieves the LobSystems that match the specified wildcard pattern.</p> <p>If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the <b>LobSystems</b> that the security principal (1) in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.</p> <p>A <b>LobSystem</b> matches the wildcard pattern specified by <b>searchLikeName</b> if any of the following conditions is true:</p> <ul style="list-style-type: none"> <li>▪ The <b>searchLikeName</b> matches the name of the <b>LobSystem</b>.</li> <li>▪ The <b>searchLikeName</b> matches the localized name of the <b>LobSystem</b> and the <b>LobSystem</b>'s localized name has its language code identifier (LCID) set to zero or set to the <b>LCID</b> specified by <b>callerCultureLcid</b>.</li> </ul>
<p><b>GetLobSystemsReferencedByEntitiesAssociated WithModel</b></p>	<p>The <b>GetLobSystemsReferencedByEntitiesAssociated WithModel</b> operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the <b>LobSystems</b> that the security principal (1) in whose context the protocol client is operating is authorized to read&lt;28&gt; that are also referenced by <b>Entities</b> associated with the specified <b>Model</b> are retrieved.</p>
<p><b>GetMethodById</b></p>	<p>The <b>GetMethodById</b> operation retrieves the Method with the specified MetadataObjectId.</p>
<p><b>GetMethodInstanceById</b></p>	<p>The <b>GetMethodInstanceById</b> operation retrieves the MethodInstance with the specified MetadataObjectId.</p>
<p><b>GetMethodInstancesForDataClass</b></p>	<p>The <b>GetMethodInstancesForDataClass</b> operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass.</p>
<p><b>GetMethodInstancesForMethod</b></p>	<p>The <b>GetMethodInstancesForMethod</b> operation retrieves the MethodInstances contained by the specified Method.</p>
<p><b>GetMethodsForDataClass</b></p>	<p>The <b>GetMethodsForDataClass</b> operation retrieves the Methods contained by the specified DataClass.</p>
<p><b>GetModelById</b></p>	<p>The <b>GetModelById</b> operation retrieves the Model with the specified MetadataObjectId.</p>

Operation	Description
<b>GetModelByName</b>	The <b>GetModelByName</b> operation retrieves the specified Model.
<b>GetModelsByEntityId</b>	The <b>GetModelsByEntityId</b> operation retrieves the Models that reference the specified Entity.
<b>GetModelsByName</b>	<p>The <b>GetModelsByName</b> operation retrieves the Models that match the specified wildcard pattern. A <b>Model</b> matches the wildcard pattern specified by <b>wildcardedName</b> if any of the following conditions is true:</p> <ul style="list-style-type: none"> <li>▪ <b>WildcardedName</b> matches the name of the <b>Model</b>.</li> <li>▪ <b>WildcardedName</b> matches the localized name of the <b>Model</b> and the model's localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid.</li> </ul>
<b>GetParameterById</b>	The <b>GetParameterById</b> operation retrieves the Parameter with the specified MetadataObjectId.
<b>GetParametersForMethod</b>	The <b>GetParametersForMethod</b> operation retrieves the Parameters of the specified Method.
<b>GetRootTypeDescriptorForParameter</b>	The <b>GetRootTypeDescriptorForParameter</b> operation retrieves the root TypeDescriptor of the specified Parameter.
<b>GetServiceApplicationId</b>	The <b>GetServiceApplicationId</b> operation retrieves the unique implementation-specific identifier of a metadata store.
<b>GetSystemUtilityTypeNameForLobSystem</b>	The <b>GetSystemUtilityTypeNameForLobSystem</b> operation retrieves the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.
<b>GetThrottlingRules</b>	The <b>GetThrottlingRules</b> operation retrieves all throttle configuration settings used by the protocol server.
<b>GetTypeDescriptorById</b>	The <b>GetTypeDescriptorById</b> operation retrieves the TypeDescriptor with the specified MetadataObjectId.
<b>GetTypeDescriptorsByNameAndLevelForParameter</b>	<p>The <b>GetTypeDescriptorByNameAndLevelForParameter</b> operation SHOULD <a href="#">&lt;29&gt;</a> retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:</p> <ul style="list-style-type: none"> <li>▪ The level of the root <b>TypeDescriptor</b> is set to zero ("0").</li> <li>▪ The level of the specified <b>TypeDescriptor</b> is 1</li> </ul>

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

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

Operation	Description
	<p>specified <b>MetadataObject</b> is a <b>MetadataCatalog</b> and another <b>MetadataCatalog</b> with the same partition (1) as the specified <b>MetadataCatalog</b> already exists, this operation MUST NOT change the state of the data in the metadata store <a href="#">&lt;30&gt;</a>.</p>
<p><b>MetadataObjectMergeXml</b></p>	<p>The <b>MetadataObjectMergeXml</b> operation merges the <b>Properties</b>, localized names, and ACEs contained by the specified <b>MetadataModel</b> into the existing <b>MetadataObjects</b> in the metadata store. The <b>MetadataModel</b> MUST be specified as a Well-Formed External Parsed Entity according to <a href="#">[XML]</a> section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> <li>▪ An Action element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.3.</li> <li>▪ An ActionParameter element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.4.</li> <li>▪ An Association element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.7.</li> <li>▪ An AssociationGroup element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.8.</li> <li>▪ An Entity element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.11.</li> <li>▪ A FilterDescriptor element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.12.</li> <li>▪ An Identifier element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.14.</li> <li>▪ A LobSystem element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.17.</li> <li>▪ A LobSystemInstance element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.18.</li> <li>▪ A Method element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.24.</li> <li>▪ A MethodInstance element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.25.</li> <li>▪ A Model element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.</li> <li>▪ A Parameter element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.29.</li> </ul>
<p><b>MetadataObjectReadXml</b></p>	<p>The <b>MetadataObjectReadXml</b> operation creates <b>MetadataObjects</b> in the metadata store, optionally along with their <b>Properties</b>, localized names, and ACEs contained by the specified <b>MetadataModel</b> <a href="#">&lt;31&gt;</a>. This operation creates</p>

Operation	Description
	<p><b>Properties</b>, localized names, and ACEs for the default Setting. The operation also creates a default localized name for the specified <b>MetadataModel</b>, such that the <b>vlu</b> element, as specified in section <a href="#">2.2.4.41</a>, contains the name of the root element of the specified <b>MetadataModel</b>. If the same <b>MetadataObject</b> exists on the server, the <b>MetadataObjectReadXml</b> operation will ignore the <b>MetadataObject</b> specified in the XML representing the <b>MetadataModel</b> when the <b>MetadataObject</b> contains no properties. 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>▪ An Action element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.3.</li> <li>▪ An ActionParameter element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.4.</li> <li>▪ An Association element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.7.</li> <li>▪ An AssociationGroup element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.8.</li> <li>▪ An Entity element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.16.</li> <li>▪ An Identifier element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.19.</li> <li>▪ A FilterDescriptor element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.17.</li> <li>▪ A LobSystem element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.23.</li> <li>▪ A LobSystemInstance element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.24.</li> <li>▪ A Method element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.30.</li> <li>▪ A MethodInstance element, as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.31.</li> <li>▪ A 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 <b>MetadataObjects</b> contained by the <b>MetadataModel</b>, <b>Localized names</b>, <b>Properties</b>, and <b>ACEs</b> corresponding to <b>MetadataObjects</b> contained by the <b>MetadataModel</b> from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ If "Model" value is specified for the</li> </ul>

Operation	Description
	<p><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>If "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 <b>CameThroughRemoteAdminService</b> header specified in section <a href="#">3.1</a> is present in the SOAP request, and if the specified <b>MetadataModel</b> contains <b>LobSystems</b> that the security principal (1) 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>The <b>ModelReadXml</b> operation creates the <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b> in the metadata store. The <b>Properties</b>, localized names, and ACEs of the <b>MetadataObjects</b> are also created. The <b>MetadataModel</b> MUST be specified as XML that conforms to the Business Data Connectivity Model file format specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34. If the <b>MetadataModel</b> contains a <b>LobSystem</b> that has the same name and type as a <b>LobSystem</b> in the metadata store, the <b>LobSystem</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server, along with all <b>LobSystemInstances</b> contained by that <b>LobSystem</b> and the <b>Properties</b>, localized names, and ACEs of the ignored <b>MetadataObjects</b>. If the <b>MetadataModel</b> contains an <b>Entity</b> that has the same name, namespace, and version as an <b>Entity</b> in the metadata store and the names of the <b>LobSystems</b> that contain these <b>Entities</b> are identical, the <b>Entity</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server, along with all <b>MetadataObjects</b> contained by the <b>Entity</b> or other ignored <b>MetadataObjects</b> and the <b>Properties</b>, localized names, and ACEs of the ignored <b>MetadataObjects</b>.</p>
<b>ReadSlicedXml</b>	<p>The <b>ReadSlicedXml</b> operation creates the <b>Model</b> or <b>LobSystem</b> and its referenced <b>MetadataObjects</b>, along with the <b>Properties</b>, localized names, and ACEs of the <b>MetadataModel</b> in the metadata store. The <b>MetadataModel</b> is represented as an implementation-specific string. The <b>MetadataModel</b> MUST contain a single <b>Model</b> or <b>LobSystem</b>, along with all contained <b>MetadataObjects</b> and their <b>Properties</b> in all <b>Settings</b>, localized names in all <b>Settings</b>, and ACEs in all <b>Settings</b>. The protocol</p>

Operation	Description
	client typically uses this operation to restore a backed-up <b>Model</b> or <b>LobSystem</b> to a specified partition (1). The <a href="#">WriteSlicedXml</a> operation, as specified in section <a href="#">3.1.4.115</a> , retrieves the <b>string</b> to be used as an input for this operation.
<b>RemoveEntityFromModel</b>	The <b>RemoveEntityFromModel</b> operation removes the reference to the specified Entity from the specified Model.
<b>RemoveLocalizedName</b>	The <b>RemoveLocalizedName</b> operation removes the localized name with the specified LCID from the specified MetadataObject.
<b>RemoveProperty</b>	The <b>RemoveProperty</b> operation removes the specified <b>Property</b> from the specified MetadataObject.
<b>RemoveThrottlingRule</b>	The <b>RemoveThrottlingRule</b> operation deletes the specified throttle configuration setting.
<b>SaveLocalizedName</b>	The <b>SaveLocalizedName</b> operation adds or replaces a localized name for the specified MetadataObject. If a localized name with the same LCID and Setting as the specified LCID and <b>Setting</b> 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>	The <b>SaveProperty</b> operation adds or replaces 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 in the same Setting 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>	<p>The <b>SetAccessControlEntries</b> operation sets ACEs for the specified MetadataObject. The protocol server MUST delete all ACEs of the specified <b>MetadataObject</b> for the specified Setting, and then add the specified ACEs to the specified <b>MetadataObject</b>.</p> <p>Note that if the <b>SetAccessControlEntries</b> element, as specified in section <a href="#">3.1.4.107.2.1</a>, contains an <b>accessControlEntries</b> element such that any two of its <b>AccessControlEntryStruct</b> elements contain the same value for the <b>principalName</b> element, the protocol server MUST add only one ACE for that <b>principalName</b>.</p>
<b>SetDefaultActionForEntity</b>	The <b>SetDefaultActionForEntity</b> operation sets the default Action for the specified Entity.
<b>SetDefaultValuesForTypeDescriptor</b>	The <b>SetDefaultValuesForTypeDescriptor</b> operation sets the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the <b>TypeDescriptorId</b> element of the specified <b>DefaultValueStruct</b> complex type for the



Operation	Description
	MethodInstance, with the <b>MetadataObjectId</b> specified by the <b>methodInstanceId</b> element of the specified <b>DefaultValueStruct</b> .
<b>SetLobSystemDataByLobSystemId</b>	The <b>SetLobSystemDataByLobSystemId</b> operation sets the Business Logic Modules <32> for the specified LobSystem.
<b>TypeDescriptorCreate</b>	The <b>TypeDescriptorCreate</b> operation creates a TypeDescriptor in the metadata store.
<b>TypeDescriptorMergeXml</b>	The <b>TypeDescriptorMergeXml</b> operation merges the <b>Properties</b> 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, as specified in [XML] section 4.3.2, and MUST have as a root element the <b>TypeDescriptor</b> element, as specified in [MS-BDCMFFS] section 2.2.3.34.
<b>TypeDescriptorReadXml</b>	The <b>TypeDescriptorReadXml</b> operation creates the TypeDescriptors contained by the specified MetadataModel, along with their <b>Properties</b> and localized names, in the metadata store. The <b>MetadataModel</b> MUST be specified as a well-formed external parsed entity, as specified in [XML] section 4.3.2, and MUST have as a root element the <b>TypeDescriptor</b> element, as specified in [MS-BDCMFFS] section 2.1.3.43.
<b>Update</b>	The <b>Update</b> operation updates a MetadataObject in the metadata store.
<b>WriteSlicedXml</b>	The <b>WriteSlicedXml</b> operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model, <33> along with its included MetadataObjects. This operation can also optionally retrieve the localized names, <b>Properties</b> , and ACEs in all Settings. The protocol client typically uses this operation to back up a <b>Model</b> or an <b>LobSystem</b> in a specified partition (1). The ReadSlicedXml operation, as specified in section 3.1.4.100, can be used to restore the <b>Model</b> or <b>LobSystem</b> by specifying the string returned from this operation.

### 3.1.4.1 Activate

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

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

```
<wsdl:operation name="Activate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns7:BusinessDataCatalogSharedService_Activate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns7:BusinessDataCatalogSharedService_Activate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_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/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_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/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_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/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_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/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>Entity</b> .

Error complex type	Condition
<a href="#">ConcurrentModificationExceptionState</a> (from namespace <a href="#">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Entity</b> has been updated by a context other than the one by which it was currently being read. This happens when the specified object version is not equal to the current object version of the <b>Entity</b> . For example, this error can be raised when one context reads an <b>Entity</b> , another context updates the same <b>Entity</b> , and then the original context tries to update.
<a href="#">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</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 specified in section <a href="#">3.1.4.5.3.2</a> when performing this operation.</li> </ul>
<a href="#">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="#">Microsoft.SharePoint.BusinessData</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

Message	Description
	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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityStruct:** The specified Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

#### 3.1.4.1.2.2 ActivateResponse

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

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
      name="ActivateResult" nillable="true" type="tns6:EntityStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**ActivateResult:** The activated Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.1.3 Complex Types

None.

### 3.1.4.1.4 Simple Types

None.

### 3.1.4.1.5 Attributes

None.

### 3.1.4.1.6 Groups

None.

### 3.1.4.1.7 Attribute Groups

None.

## 3.1.4.2 AddAssociationReferenceToAssociationGroup

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

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

```

<wsdl:operation name="AddAssociationReferenceToAssociationGroup"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup"
    message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse"
    message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault"
  />
</wsdl:operation>

```

```

dataExceptionStateFault_FaultMessage"
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="tns7: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/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7: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/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argu
mentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Entity containing the specified <b>AssociationGroup</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>AssociationGroup</b> has been updated by a

Error complex type	Condition
	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.
<a href="#">DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	Another <b>AssociationReference</b> in the specified <b>AssociationGroup</b> references the Association that is referenced by the specified <b>AssociationReference</b> .
<a href="#">ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>AssociationGroup</b> already contains the implementation-specific maximum number of <b>AssociationReferences</b> .
<a href="#">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The operation cannot be performed because the <b>Entity</b> containing the <b>AssociationGroup</b> is active.

### 3.1.4.2.1 Messages

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

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

Message	Description
	operation.

### 3.1.4.2.1.1

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

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

The SOAP action value is:

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

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

### 3.1.4.2.1.2

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

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

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

### 3.1.4.2.2 Elements

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

Element	Description
<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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationGroupStruct" nillable="true" type="tns6:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns6:AssociationReferenceStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

**associationGroupStruct:** The AssociationGroup. The partition (1) of this **AssociationGroup** MUST be the partition (1) of the protocol client.

**associationReferenceStruct:** The AssociationReference. The partition (1) of this **AssociationReference** MUST be the partition (1) of the protocol client.

### 3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse

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

```

<xs:element name="AddAssociationReferenceToAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="tns6:AssociationGroupStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns6:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**AddAssociationReferenceToAssociationGroupResult:** The AssociationGroup. The partition (1) of this **AssociationGroup** MUST be the partition (1) of the protocol client.

**associationReferenceStruct:** The AssociationReference [<34>](#). The partition (1) of this **AssociationReference** MUST be the partition (1) of the protocol client.

### 3.1.4.2.3 Complex Types

None.

### 3.1.4.2.4 Simple Types

None.

### 3.1.4.2.5 Attributes

None.

### 3.1.4.2.6 Groups

None.

### 3.1.4.2.7 Attribute Groups

None.

### 3.1.4.3 AddEntityToModel

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

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

```
<wsdl:operation name="AddEntityToModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddEntityToModel"
    message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddEntityToModelResponse"
    message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddEntityToModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_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/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_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/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFa
    ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a> )	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>Model</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The partition (1) of the specified Entity is not the same as the partition (1) of the specified <b>Model</b> .
<b>BdcExceptionState</b> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a> )	The specified <b>Entity</b> does not exist.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Model</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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelStruct:** The Model. The partition (1) of this **Model** MUST be the partition (1) of the protocol client.

**entityStruct:** The Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.



```

edService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_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/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_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/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

### 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_AddThrottlingRule_InputMessage</b>	The request WSDL message for the <b>AddThrottlingRule</b> WSDL operation.
<b>BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage</b>	The response WSDL message for the <b>AddThrottlingRule</b> WSDL operation.

#### 3.1.4.4.1.1 BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage

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

The SOAP action value is:

```

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

```

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

#### 3.1.4.4.1.2

#### **BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage**

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

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

### 3.1.4.4.2 Elements

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

Element	Description
<b>AddThrottlingRule</b>	The input data for the <b>AddThrottlingRule</b> WSDL operation.
<b>AddThrottlingRuleResponse</b>	The result data for the <b>AddThrottlingRule</b> WSDL operation.

#### 3.1.4.4.2.1 AddThrottlingRule

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

```
<xs:element name="AddThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="tns6:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

#### 3.1.4.4.2.2 AddThrottlingRuleResponse

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

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

#### 3.1.4.4.3 Complex Types

None.

#### 3.1.4.4.4 Simple Types

None.

#### 3.1.4.4.5 Attributes

None.

#### 3.1.4.4.6 Groups

None.





```

name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage** response message, unless any faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The value of the <b>validate</b> element is set to "false", and the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified <b>Entities</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The partition (1) of the specified Model is different from the partition (1) of any of the specified <b>Entities</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>entityStructs</b> element in the <b>BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage</b> has no elements.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)</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 raised 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> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	One or more of the specified <b>Entities</b> 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_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.

Message	Description
	ate WSDL operation.

### 3.1.4.5.1.1

#### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.5.1.2

#### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage

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

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

### 3.1.4.5.2 Elements

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

Element	Description
<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.

#### 3.1.4.5.2.1 BulkSwitchActiveOrValidate

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

```
<xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns6:ArrayOfEntityStruct"/>
      <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityStructs:** The Entities that are to be set active. At least one **Entity** MUST be specified. The partition (1) of each of the **Entities** in this element MUST be the partition (1) of the protocol client. If the value of the **validate** element is set to "false", the protocol server MUST set the specified **Entities** to active upon successful completion of this operation.

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

**modelStruct:** The Model to which to add the specified **Entities**. The partition (1) of this **Model** MUST be the partition (1) of the protocol client. If the value of this element is not NULL and the value of the **validate** element is set to "false", this operation MUST add all specified **Entities** to the specified **Model** upon successful completion.

### 3.1.4.5.2.2 BulkSwitchActiveOrValidateResponse

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

```
<xs:element name="BulkSwitchActiveOrValidateResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="BulkSwitchActiveOrValidateResult" nillable="true"
        type="tns6:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="entityStructs" nillable="true" type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

**entityStructs:** This element MUST contain information about Entities that were updated as a result of this operation. The value of this element MUST be ignored by the protocol client if the value of the **validate** element is set to "true". The partition (1) of the **Entities** MUST be the partition (1) of the protocol client.

### 3.1.4.5.3 Complex Types

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

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

### 3.1.4.5.3.1 ArrayOfActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfActivationErrorRecordStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
      nillable="true" type="tns6:ActivationErrorRecordStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

### 3.1.4.5.3.2 ActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

    <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Value	Description
-1003	<p>A <b>TypeDescriptor</b> is in error because it references an Identifier that does not exist in the specified <b>Entity</b>. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>containingParameterName</b></li> <li>▪ <b>containingTypeDescriptorName</b></li> <li>▪ <b>containingTypeDescriptorId</b></li> <li>▪ <b>tDIDReferenceName</b></li> <li>▪ <b>tDIDReferenceTypeName</b></li> <li>▪ <b>tDIDEntityReferenceName</b></li> <li>▪ <b>tDIDEntityReferenceNamespace</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1004	<p>A <b>TypeDescriptor</b> is in error because it references an <b>Association</b> that does not exist in the specified <b>Entity</b>. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>containingParameterName</b></li> <li>▪ <b>containingTypeDescriptorName</b></li> <li>▪ <b>containingTypeDescriptorId</b></li> <li>▪ <b>tDAssociationReferenceName</b></li> <li>▪ <b>tDAssociationEntityReferenceName</b></li> <li>▪ <b>tDAssociationEntityReferenceNamespace</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1005	<p>An <b>Entity</b> is in error because the <b>TypeDescriptors</b> that are contained in the <b>Parameters</b> of its <b>Methods</b> are referencing only non-empty subset of <b>Identifiers</b> of an active <b>Entity</b>. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> </ul>

Value	Description
	<ul style="list-style-type: none"> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>tDIDEntityReferenceName</b></li> <li>▪ <b>tDIDEntityReferenceNamespace</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1008	<p>An <b>AssociationReference</b> is in error because it references an <b>Association</b> that does not exist in the specified <b>Entity</b>&lt;36&gt;. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> <li>▪ <b>aGAssociationReferenceName</b></li> <li>▪ <b>aGAssociationEntityReferenceName</b></li> <li>▪ <b>aGAssociationEntityReferenceNamespace</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1011	<p>An <b>Association</b> 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, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>aGAssociationReferenceName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1012	<p>An <b>Association</b> is in error because all of the conditions in the following list are true:</p> <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 true:</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</li> </ul>

Value	Description
	<p><b>TypeDescriptor</b> contained by the <b>Parameter</b> that contains the <b>ReturnPropertyDescriptor</b> of this <b>MethodInstance</b>.</p> <ul style="list-style-type: none"> <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, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>aGAssociationReferenceName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-800	<p>An <b>AssociationGroup</b> is in error because all <b>Associations</b> referenced by the <b>AssociationReferences</b> contained by this <b>AssociationGroup</b> with the <b>IsReverse</b> attribute not set do not have same sources. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-801	<p>An <b>AssociationGroup</b> is in error because one of the following conditions is true:</p> <ul style="list-style-type: none"> <li>▪ The <b>Entity</b> containing <b>AssociationGroup</b> is not the destination of this <b>AssociationGroup</b>.</li> <li>▪ The <b>AssociationGroup</b> contains <b>AssociationReferences</b> with the <b>IsReverse</b> attribute is "true", but the <b>AssociationGroup</b> has more than one source.</li> </ul> <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-802	<p>An <b>AssociationGroup</b> is in error because there is more than one <b>Association</b> that is an Associator or a Disassociator referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b>. For this error code, the following MUST NOT be NULL:</p>



Value	Description
	<ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-803	<p>An <b>AssociationGroup</b> is in error because one of the following conditions is met:</p> <ul style="list-style-type: none"> <li>▪ There is more than one <b>Association</b> that is a <b>BulkAssociatedIdEnumerator</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> with the <b>IsReverse</b> attribute is "false" <a href="#">&lt;37&gt;</a>.</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 the <b>IsReverse</b> attribute is "true" than the number of sources of this <b>AssociationGroup</b> <a href="#">&lt;38&gt;</a>.</li> </ul> <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-804	<p>An <b>AssociationGroup</b> is in error because it contains an <b>AssociationReference</b> that has the <b>IsReverse</b> attribute "true", 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, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>
-805	<p>An <b>Association</b> is in error because it is a <b>BulkAssociationNavigator</b> that is referenced from an <b>AssociationReference</b>, but it is not referenced from an <b>AssociationReference</b> that is contained in an <b>AssociationGroup</b> that 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, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> </ul>

Value	Description
	<ul style="list-style-type: none"> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>aGAssociationReferenceName</b></li> <li>▪ <b>containingAssociationGroupName</b></li> </ul>
-806	<p>An <b>Association</b> is in error because it is referenced by two or more <b>AssociationReferences</b>. For this error code, the following MUST NOT be not NULL:</p> <ul style="list-style-type: none"> <li>▪ <b>containingEntityNamespace</b></li> <li>▪ <b>containingEntityName</b></li> <li>▪ <b>containingEntityVersion</b></li> <li>▪ <b>containingMethodName</b></li> <li>▪ <b>aGAssociationReferenceName</b></li> </ul> <p>Values of all other elements MUST be ignored by the protocol client.</p>

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

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

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

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

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

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

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

#### 3.1.4.5.4 Simple Types

None.

#### 3.1.4.5.5 Attributes

None.

#### 3.1.4.5.6 Groups

None.

### 3.1.4.5.7 Attribute Groups

None.

### 3.1.4.6 CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to [\[MS-BDCMFFS\]](#) 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="tns7: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="tns7: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="tns7: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/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_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="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified path did not conform to the specification for TypeDescriptorPathStrings in [MS-BDCMFFS] section <a href="#">2.1.5.5</a> .
<a href="#">MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>DataClass</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_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.

#### 3.1.4.6.1.1

### **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.

#### 3.1.4.6.1.2

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

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

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

### 3.1.4.6.2 Elements

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

Element	Description
<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.

### 3.1.4.6.2.1 CheckPathInMethodInstances

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

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

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

**dottedPath:** The path to the TypeDescriptor from the **TypeDescriptors** contained by the 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:** The partition (1) of the protocol client.

### 3.1.4.6.2.2 CheckPathInMethodInstancesResponse

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

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

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



```

edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</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_ClearLocalizedNames_InputMessage</b>	The request WSDL message for the <b>ClearLocalizedNames</b> WSDL operation.

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

### 3.1.4.7.1.1

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

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

The SOAP action value is:

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

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

### 3.1.4.7.1.2

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

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

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

### 3.1.4.7.2 Elements

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

Element	Description
<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.

#### 3.1.4.7.2.1 ClearLocalizedNames

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

```
<xs:element name="ClearLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



**metadataObjectStruct:** The MetadataObject from which the localized names are to be removed. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

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

### 3.1.4.7.2 ClearLocalizedNamesResponse

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

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

### 3.1.4.7.3 Complex Types

None.

### 3.1.4.7.4 Simple Types

None.

### 3.1.4.7.5 Attributes

None.

### 3.1.4.7.6 Groups

None.

### 3.1.4.7.7 Attribute Groups

None.

### 3.1.4.8 ClearProperties

The **ClearProperties** operation removes all **Properties** of the specified MetadataObject from the specified Setting.

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

```
<wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
    message="tns7:BusinessDataCatalogSharedService_ClearProperties_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse"
    message="tns7: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/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_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/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7: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="ArgumentOutOfRangeExceptionExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>MetadataObject</b> .
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</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_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.

#### 3.1.4.8.1.1 BusinessDataCatalogSharedService\_ClearProperties\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.8.1.2 BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage

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

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

### 3.1.4.8.2 Elements

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

Element	Description
<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.

#### 3.1.4.8.2.1 ClearProperties

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

```
<xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"  
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>  
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

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

**metadataObjectStruct:** The MetadataObject from which the **Properties** are to be removed. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

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

#### 3.1.4.8.2.2 ClearPropertiesResponse

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

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

#### 3.1.4.8.3 Complex Types

None.

#### 3.1.4.8.4 Simple Types

None.

#### 3.1.4.8.5 Attributes

None.

#### 3.1.4.8.6 Groups

None.

#### 3.1.4.8.7 Attribute Groups

None.

#### 3.1.4.9 CopyAclAcrossChildren

The **CopyAclAcrossChildren** operation clears the ACEs of the descendent MetadataObjects of a specified **MetadataObject** and copies the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent **MetadataObjects** if the security principal (1) 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="tns7: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="tns7: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/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7: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/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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="tns7: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/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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/CopyAclAcrossChildrenMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_FaultMessage" 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="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a> )	The security principal (1) in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	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_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.

#### 3.1.4.9.1.1

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

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

The SOAP action value is:

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

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

#### 3.1.4.9.1.2

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

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

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

### 3.1.4.9.2 Elements

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

Element	Description
<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.

#### 3.1.4.9.2.1 CopyAclAcrossChildren

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

```
<xs:element name="CopyAclAcrossChildren" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

#### 3.1.4.9.2.2 CopyAclAcrossChildrenResponse

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

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

#### 3.1.4.9.3 Complex Types

None.

#### 3.1.4.9.4 Simple Types

None.

#### 3.1.4.9.5 Attributes

None.

### 3.1.4.9.6 Groups

None.

### 3.1.4.9.7 Attribute Groups

None.

### 3.1.4.10 CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** operation clears the ACEs in a specified Setting on the descendent MetadataObjects of the specified **MetadataObject** and copies the ACEs in the specified **Setting** on the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent **MetadataObjects** if the security principal (1) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

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

```
<wsdl:operation name="CopyAclAcrossChildrenForSetting"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_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/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_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/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_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/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```



```

message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <i>MetadataObject</i> does not exist.

### 3.1.4.10.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage</b>	The request WSDL message for the <b>CopyAclAcrossChildrenFor</b>

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

### 3.1.4.10.1.1

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

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

The SOAP action value is:

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

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

### 3.1.4.10.1.2

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

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

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

### 3.1.4.10.2 Elements

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

Element	Description
<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.

#### 3.1.4.10.2.1 CopyAclAcrossChildrenForSetting

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

```
<xs:element name="CopyAclAcrossChildrenForSetting"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

**metadataObjectStruct:** The MetadataObject. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

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

### 3.1.4.10.2.2 CopyAclAcrossChildrenForSettingResponse

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

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

### 3.1.4.10.3 Complex Types

None.

### 3.1.4.10.4 Simple Types

None.

### 3.1.4.10.5 Attributes

None.

### 3.1.4.10.6 Groups

None.

### 3.1.4.10.7 Attribute Groups

None.

### 3.1.4.11 CopyAclToSetting

The **CopyAclToSetting** operation deletes the ACEs in the specified non-default Setting of the specified MetadataObject and copies the ACEs in the default **Setting** of the specified **MetadataObject** to the specified **Setting** of the specified **MetadataObject**.

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

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

```

message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_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/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_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/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_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/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to set permissions on the specified

Error complex type	Condition
	<b>MetadataObject.</b>
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The MetadataObjectId of the specified <b>MetadataObject</b> is set to zero.
<a href="http://Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundStateException">MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist in the metadata store.

### 3.1.4.11.1 Messages

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

Message	Description
<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.

#### 3.1.4.11.1.1

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

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

The SOAP action value is:

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

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

#### 3.1.4.11.1.2

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

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

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

### 3.1.4.11.2 Elements

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

Element	Description
<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.

### 3.1.4.11.2.1 CopyAclToSetting

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

```
<xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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 the partition (1) of the protocol client.

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

### 3.1.4.11.2.2 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>
```

### 3.1.4.11.3 Complex Types

None.

### 3.1.4.11.4 Simple Types

None.

### 3.1.4.11.5 Attributes

None.

### 3.1.4.11.6 Groups

None.

### 3.1.4.11.7 Attribute Groups

None.

### 3.1.4.12 Deactivate

The **Deactivate** operation sets an active version of an Entity to not active.

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

```
<wsdl:operation name="Deactivate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns7: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="tns7: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/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessage" 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="tns7: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/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>Entity</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Entity</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 raised when a thread reads the given <b>Entity</b> , another thread updates the same <b>Entity</b> , and then the original thread tries to update.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	This operation cannot be performed because the protocol server encountered reference errors, as specified in section 3.1.4.5.3.2, when performing this operation.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	This operation cannot be performed because the specified <b>Entity</b> is not active.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Entity</b> does not exist.

### 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_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.

### 3.1.4.12.1.1 BusinessDataCatalogSharedService\_Deactivate\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.12.1.2 BusinessDataCatalogSharedService\_Deactivate\_OutputMessage

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

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

### 3.1.4.12.2 Elements

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

Element	Description
<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.

#### 3.1.4.12.2.1 Deactivate

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

```
<xs:element name="Deactivate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityStruct:** The Entity to set to not active. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.12.2 DeactivateResponse

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

```
<xs:element name="DeactivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeactivateResult:** The Entity that was set to not active as a result of this operation. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.12.3 Complex Types

None.

### 3.1.4.12.4 Simple Types

None.

### 3.1.4.12.5 Attributes

None.

### 3.1.4.12.6 Groups

None.

### 3.1.4.12.7 Attribute Groups

None.

### 3.1.4.13 Delete

The **Delete** operation deletes the specified MetadataObject.

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

```
<wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns7: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="tns7: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/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"/>
```

```

message="tns7: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="tns7: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/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7: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="tns7: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/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7: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 faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) 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 (1) in whose context the protocol client is operating is not authorized to modify one or more of the LobSystems that contain one or more Entity referenced by the specified <b>Model</b> .

Error complex type	Condition
<a href="#">ConcurrentModificationExceptionState</a> (from namespace <a href="#">Microsoft.SharePoint.BusinessData</a> )	<p>The specified <b>MetadataObject</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>MetadataObject</b>. For example, this error can be raised when one context reads the given <b>MetadataObject</b>, another context updates the same <b>MetadataObject</b>, and then the original context tries to update the same <b>MetadataObject</b>.</p>
<a href="#">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	<p>The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the <b>Entity</b>, but, at the time of the attempt, the <b>Entity</b> was no longer active.</p>
<a href="#">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	<p>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>.</p>
<a href="#">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	<p>The specified <b>MetadataObject</b> is a <b>LobSystem</b> that contains at least one <b>Entity</b>.</p>

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.InvalidOperationException">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and there is already at least one <b>MethodInstance</b> whose <b>ReturnTypeDescriptor</b> is the specified <b>TypeDescriptor</b> .
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2013/01/01/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2013/01/01/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>MetadataObject</b> does not exist.

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

MetadataObject	Action
Action	Delete all <b>ActionParameters</b> in the specified <b>Action</b> .
Entity	Delete all <b>Action</b> , <b>Method</b> , <b>Identifier</b> , and <b>AssociationGroups</b> that are child objects of the specified <b>Entity</b> , as well as all their child objects, in a recursive manner. If the <b>LobSystem</b> that is the parent of this <b>Entity</b> contains no other <b>Entities</b> , also delete the <b>LobSystem</b> , as well as all the <b>MetadataObjects</b> contained by the <b>LobSystem</b> in a recursive manner.
LobSystem	Delete all <b>LobSystemInstances</b> that are child objects of the specified <b>LobSystem</b> .
Method	Delete all <b>MethodInstance</b> , <b>FilterDescriptor</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. <39>
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.
Parameter	Delete the root <b>TypeDescriptor</b> of the specified <b>Parameter</b> , as well as all the child objects of the root <b>TypeDescriptor</b> , in a recursive manner. <40> If there are several parameters that exist in the same method, and one of the parameters is deleted, then the <b>objectVersion</b> of the other parameters are incremented by 1, and the <b>ordinalNumber</b> of the other parameters are changed according to the following rules: <ol style="list-style-type: none"> <li>1. If the parameter is deleted, the <b>ordinalNumber</b> value of the parameters whose <b>ordinalNumber</b> values are greater than this parameter are reduced by 1.</li> <li>2. If the parameter is deleted, the <b>ordinalNumber</b> value of the parameters whose <b>ordinalNumber</b> values are less than this parameter are not changed.</li> </ol>
TypeDescriptor	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.

### 3.1.4.13.1 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.

#### 3.1.4.13.1.1 BusinessDataCatalogSharedService\_Delete\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.13.1.2 BusinessDataCatalogSharedService\_Delete\_OutputMessage

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

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

### 3.1.4.13.2 Elements

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

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

#### 3.1.4.13.2.1 Delete

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

```
<xs:element name="Delete" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject that this operation MUST delete. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

### 3.1.4.13.2.2 DeleteResponse

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

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

### 3.1.4.13.3 Complex Types

None.

### 3.1.4.13.4 Simple Types

None.

### 3.1.4.13.5 Attributes

None.

### 3.1.4.13.6 Groups

None.

### 3.1.4.13.7 Attribute Groups

None.

### 3.1.4.14 DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** operation removes an AssociationReference from an AssociationGroup by deleting the **AssociationReference**.

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

```
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup"
    message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse"
    message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
```

```

name="InvalidOperationExceptionFault"
message="tns7: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/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Entity that contains the <b>AssociationGroup</b>



Error complex type	Condition
	containing the specified <b>AssociationReference</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The <b>AssociationGroup</b> identifier of the specified <b>AssociationReference</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ConcurrentModificationExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>AssociationReference</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>AssociationReference</b> . For example, this error can be raised when one context reads the <b>AssociationReference</b> , another context updates the same <b>AssociationReference</b> , and then the original context tries to update. <41>
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The operation cannot be performed because the <b>Entity</b> that contains the <b>AssociationGroup</b> that contains the specified <b>AssociationReference</b> is active. <42>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The <b>AssociationGroup</b> containing the specified <b>AssociationReference</b> does not exist.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a> )	The identifier of the specified <b>AssociationReference</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_DeleteAssociationReference</b>	The request WSDL message for the

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

### 3.1.4.14.1.1

#### **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.14.1.2

#### **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage**

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

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

### 3.1.4.14.2 Elements

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

Element	Description
<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.

#### 3.1.4.14.2.1 **DeleteAssociationReferenceFromAssociationGroup**

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

```

<xs:element name="DeleteAssociationReferenceFromAssociationGroup"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationReferenceStruct" nillable="true" type="tns6:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**associationReferenceStruct:** The AssociationReference. The partition (1) of this **AssociationReference** MUST be the partition (1) of the protocol client.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.14.2.2 DeleteAssociationReferenceFromAssociationGroupResponse

The **DeleteAssociationReferenceFromAssociationGroupResponse** element specifies the result data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

```

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

```

### 3.1.4.14.3 Complex Types

None.

### 3.1.4.14.4 Simple Types

None.

### 3.1.4.14.5 Attributes

None.

### 3.1.4.14.6 Groups

None.

### 3.1.4.14.7 Attribute Groups

None.

### 3.1.4.15 DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** operation deletes the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.

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

```
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns7: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="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataEx
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/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNu
llExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified <b>TypeDescriptor</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId for the <b>TypeDescriptor</b> or the <b>MethodInstance</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>TypeDescriptor</b> or the <b>MethodInstance</b> does not exist.

### 3.1.4.15.1 Messages

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

Message	Description
<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.

#### 3.1.4.15.1.1

### **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.

#### 3.1.4.15.1.2

### **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage**

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

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

#### 3.1.4.15.2 Elements

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

Element	Description
<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.

#### 3.1.4.15.2.1 DeleteDefaultValueForTypeDescriptor

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

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

**typeDescriptorId:** The MetadataObjectId of the TypeDescriptor.

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

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.15.2.2 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>
```

### 3.1.4.15.3 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 DeleteNoCascade

The **DeleteNoCascade** operation deletes the specified **MetadataObject** without deleting the **MetadataObjects** it references.

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

```
<wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_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/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_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/DeleteNoCascadeInvalidOperationExceptionFault"
```

```

name="InvalidOperationExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_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 faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</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>MetadataObject</b> . For example, this error can be raised when one context reads the given <b>MetadataObject</b> , another context updates the same



Error complex type	Condition
	<b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The operation cannot be performed because the specified <b>MetadataObject</b> is an Entity, which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the <b>Entity</b> , but at the time of the attempt, the <b>Entity</b> was no longer active.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	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.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObject</b> is an LobSystem that contains at least one Entity.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The operation cannot be performed because the specified <b>MetadataObject</b> is a TypeDescriptor and there is already at least one <b>MethodInstance</b> whose ReturnPropertyDescriptor is the specified <b>TypeDescriptor</b> .
<a href="http://schemas.datacontract.org/2004/07/System">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.

Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the

protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the metadata store.

MetadataObject	Action
Action	Delete all ActionParameters in the specified <b>Action</b> .
Entity	Delete all <b>Action</b> , Method, Identifier, and AssociationGroups that are child objects of the specified <b>Entity</b> , as well as all their child objects, in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified <b>LobSystem</b> .
Method	Delete all <b>MethodInstance</b> , <b>FilterDescriptor</b> , and Parameters that are child objects of the specified <b>Method</b> , as well as all their child objects, in a recursive manner. <43>
Parameter	Delete the root TypeDescriptor of the specified <b>Parameter</b> , as well as all the child objects of the root <b>TypeDescriptor</b> , in a recursive manner. <44> If there are several parameters that exist in the same method, and one of the parameters is deleted, then the <b>objectVersion</b> of the other parameters are incremented by 1, and the <b>ordinalNumber</b> value of the other parameters are changed according to the below rules: <ol style="list-style-type: none"> <li>1. If the parameter is deleted, the <b>ordinalNumber</b> value of the parameters whose <b>ordinalNumber</b> values are greater than this parameter are reduced by 1.</li> <li>2. If the parameter is deleted, the <b>ordinalNumber</b> value of the parameters whose <b>ordinalNumber</b> values are less than this parameter are not changed.</li> </ol>
TypeDescriptor	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.

### 3.1.4.16.1 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.

#### 3.1.4.16.1.1 BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.16.1.2

#### BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage

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

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

### 3.1.4.16.2 Elements

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

Element	Description
<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.

#### 3.1.4.16.2.1 DeleteNoCascade

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

```
<xs:element name="DeleteNoCascade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject that this operation MUST delete. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

#### 3.1.4.16.2.2 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>
```

### 3.1.4.16.3 Complex Types

None.

### 3.1.4.16.4 Simple Types

None.



```

message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>LobSystem</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> does not exist<46>.

### 3.1.4.17.1 Messages

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

Message	Description
<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.

### 3.1.4.17.1.1

#### **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_Input Message**

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

The SOAP action value is:

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

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

### 3.1.4.17.1.2

#### **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_Output Message**

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

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

### 3.1.4.17.2 Elements

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

Element	Description
<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.

#### 3.1.4.17.2.1 DeleteProxyAssemblyForLobSystem

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

```
<xs:element name="DeleteProxyAssemblyForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem for which the Business Logic Module [<47>](#) is to be deleted. The partition (1) of this **LobSystem** MUST be the partition (1) of the protocol client.

### 3.1.4.17.2 DeleteProxyAssemblyForLobSystemResponse

The **DeleteProxyAssemblyForLobSystemResponse** element specifies the result data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

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

### 3.1.4.17.3 Complex Types

None.

### 3.1.4.17.4 Simple Types

None.

### 3.1.4.17.5 Attributes

None.

### 3.1.4.17.6 Groups

None.

### 3.1.4.17.7 Attribute Groups

None.

### 3.1.4.18 EntityCreate

The **EntityCreate** operation creates an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified **LobSystem** to the created **Entity**. If a Model is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise, the created **Entity** is not referenced by any **Model**.

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

```
<wsdl:operation name="EntityCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate"
    message="tns7:BusinessDataCatalogSharedService_EntityCreate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse"
    message="tns7:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"/>
```

```

message="tns7:BusinessDataCatalogSharedService_EntityCreate_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/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_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/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_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/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_
FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataCatalog in the protocol client partition (1).
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	At least one of the following is true: <ul style="list-style-type: none"> <li>▪ The namespace</li> </ul>



Error complex type	Condition
	<p>specified for the new <b>Entity</b> is NULL or empty.</p> <ul style="list-style-type: none"> <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>
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The version specified for a new <b>Entity</b> is NULL.
<a href="#">DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	An <b>Entity</b> with the same name, namespace, version, and partition (1) already exists in the specified <b>LobSystem</b> .
<a href="#">ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> already contains the implementation-specific maximum number of <b>Entities</b> .
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Model</b> does not exist.

### 3.1.4.18.1 Messages

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

Message	Description
<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

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

### 3.1.4.18.1.1 BusinessDataCatalogSharedService\_EntityCreate\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.18.1.2 BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage

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

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

### 3.1.4.18.2 Elements

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

Element	Description
<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.

#### 3.1.4.18.2.1 EntityCreate

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

```
<xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:EntityStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** The Entity to be created. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

**lobSystemStruct:** The LobSystem in which the **Entity** is to be created. The partition (1) of this **LobSystem** MUST be the partition (1) of the protocol client.

**modelStruct:** The Model that references the created **Entity**. If the **Model** is NULL or its MetadataObjectId is set to zero, the protocol server MUST ignore it. Otherwise, the partition (1) of this **Model** MUST be the partition (1) of the protocol client.

### 3.1.4.18.2.2 EntityCreateResponse

The **EntityCreateResponse** element specifies the result data for the **EntityCreate** WSDL operation.

```
<xs:element name="EntityCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**EntityCreateResult:** The created Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.18.3 Complex Types

None.

### 3.1.4.18.4 Simple Types

None.

### 3.1.4.18.5 Attributes

None.

### 3.1.4.18.6 Groups

None.

### 3.1.4.18.7 Attribute Groups

None.

### 3.1.4.19 ExportPackage

The **ExportPackage** operation retrieves an XML representation of **MetadataObjects** contained by the specified **MetadataModel**, **Localized names**, **Properties**, and **ACEs** corresponding to **MetadataObjects** contained by the specified **MetadataModel** from the metadata store:

- If "Model" value is set for the **packageContents** element, the XML MUST conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- If "Model" value is not set for the **packageContents** element, the XML MUST conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.

If the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, and if the specified **MetadataModel** contains LobSystems that the security principal (1) 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="tns7: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="tns7: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="tns7: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/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7: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="tns7: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/ExportPackagePackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_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="tns7:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_ExportPackage\_InputMessage** request message, and

the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage** response message, unless any faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to export<48> the specified Model.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>packageContents</b> element has the "InlineProxies" value set but does not have the "Model" value set.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>Model</b> is NULL.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The MetadataObjectId of the specified <b>Model</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Model</b> or other <b>MetadataObjects</b> to be exported do not exist.

### 3.1.4.19.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ExportPackage_InputMessage</b>	The request WSDL message for the <b>ExportPackage</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ExportPackage_OutputMessage</b>	The response WSDL message for the <b>ExportPackage</b> WSDL operation.

### 3.1.4.19.1.1 BusinessDataCatalogSharedService\_ExportPackage\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.19.1.2 BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage

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

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

### 3.1.4.19.2 Elements

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

Element	Description
<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.

#### 3.1.4.19.2.1 ExportPackage

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

```
<xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelStruct:** The Model. The partition (1) of this **Model** MUST be the partition (1) of the protocol client.

**packageContents:** Specifies the kind of data to retrieve for the specified **Model**. If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding MetadataObjects from the specified Setting. If the "Model" value is also specified, the protocol server MUST also retrieve **Properties** from the default setting that do not have the same name as the **Properties** in the specified **Setting**. If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified MetadataModel. If the "LocalizedNames" value is specified, the protocol server MUST retrieve the localized names for the corresponding

**MetadataObjects** from the specified **Setting**. If the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same language code identifier (LCID) as the localized names in the specified **Setting**. If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**. If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject** and if "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**. If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**settingId**: The identifier of the **Setting** to use for retrieving **Properties**, localized names, and ACEs to export. If **Properties**, localized names, or ACEs are not exported, the protocol server MUST ignore the value of this element.

### 3.1.4.19.2.2 ExportPackageResponse

The **ExportPackageResponse** element specifies the result data for the **ExportPackage** WSDL operation.

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

**ExportPackageResult**: The XML representation conforming to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) that contains the specified data for the **MetadataModel**.

### 3.1.4.19.3 Complex Types

None.

### 3.1.4.19.4 Simple Types

None.

### 3.1.4.19.5 Attributes

None.

### 3.1.4.19.6 Groups

None.

### 3.1.4.19.7 Attribute Groups

None.

### 3.1.4.20 GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** operation forces the protocol server to create an implementation-specific Business Logic Module<49> for the specified LobSystem to connect to the LOB system described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem**, this operation MUST NOT create another Business Logic Module and MUST complete successfully.

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

```
<wsdl:operation name="GenerateProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns7: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="tns7: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/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```



The protocol client sends a

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastucture">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastucture)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>LobSystem</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>MetadataObjectId</b> of the specified <b>LobSystem</b> is set to zero.

### 3.1.4.20.1 Messages

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

Message	Description
<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.

#### 3.1.4.20.1.1

### **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.

#### 3.1.4.20.1.2

### **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage**

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

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

#### 3.1.4.20.2 Elements

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

Element	Description
<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.

##### 3.1.4.20.2.1 GenerateProxyAssemblyForLobSystem

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

```
<xs:element name="GenerateProxyAssemblyForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem.

##### 3.1.4.20.2.2 GenerateProxyAssemblyForLobSystemResponse

The **GenerateProxyAssemblyForLobSystemResponse** element specifies the result data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

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



```

edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is set to zero.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.21.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage</b>	The request WSDL message for the <b>GetAccessControlEntries</b>

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

### 3.1.4.21.1.1

#### **BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.21.1.2

#### **BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage**

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

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

### 3.1.4.21.2 Elements

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

Element	Description
<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.

#### 3.1.4.21.2.1 **GetAccessControlEntries**

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

```
<xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
```

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

**metadataObjectStruct:** The MetadataObject. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

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

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

### 3.1.4.21.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAccessControlEntriesResult" nillable="true"
        type="tns6:ArrayOfAccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAccessControlEntriesResult:** The list of ACEs.

### 3.1.4.21.3 Complex Types

None.

### 3.1.4.21.4 Simple Types

None.

### 3.1.4.21.5 Attributes

None.

### 3.1.4.21.6 Groups

None.

### 3.1.4.21.7 Attribute Groups

None.

### 3.1.4.22 GetActionById

The **GetActionById** operation retrieves the specified Action.

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

```

<wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionById"
message="tns7:BusinessDataCatalogSharedService_GetActionById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns7: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/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_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/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7: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/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero.

Error complex type	Condition
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Action</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.22.1 Messages

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

Message	Description
<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.

#### 3.1.4.22.1.1 BusinessDataCatalogSharedService\_GetActionById\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.22.1.2 BusinessDataCatalogSharedService\_GetActionById\_OutputMessage

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

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

### 3.1.4.22.2 Elements

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

Element	Description
<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.

#### 3.1.4.22.2.1 GetActionById

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



```

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

```

**actionId:** The MetadataObjectId of the Action.

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

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.22.2 GetActionByIdResponse

The **GetActionByIdResponse** element specifies the result data for the **GetActionById** WSDL operation.

```

<xs:element name="GetActionByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="tns6:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetActionByIdResult:** The Action. The partition (1) of this **Action** MUST be the partition (1) of the protocol client.

### 3.1.4.22.3 Complex Types

None.

### 3.1.4.22.4 Simple Types

None.

### 3.1.4.22.5 Attributes

None.

### 3.1.4.22.6 Groups

None.

### 3.1.4.22.7 Attribute Groups

None.

### 3.1.4.23 GetActionParameterById

The **GetActionParameterById** operation retrieves the specified ActionParameter.

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

```
<wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterById"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetActionParameterById_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/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetActionParameterById_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/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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 faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessDataMetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessDataMetadataObjectNotFoundExceptionState">Microsoft.SharePoint.BusinessData</a> )	The specified <b>ActionParameter</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.23.1 Messages

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

Message	Description
<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.

#### 3.1.4.23.1.1

### **BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.23.1.2

### **BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage**

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

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

### 3.1.4.23.2 Elements

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

Element	Description
<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.

#### 3.1.4.23.2.1 GetActionParameterById

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

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

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

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

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.23.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="tns6:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetActionParameterByIdResult:** The ActionParameter. The partition (1) of this **ActionParameter** MUST be the partition (1) of the protocol client.



```

edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7: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 faults occur.

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0"). <a href="#">&lt;50&gt;</a>
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Action</b> does not exist. <a href="#">&lt;51&gt;</a>

### 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_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.

### 3.1.4.24.1.1

#### **BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.24.1.2

#### **BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage**

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

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

### 3.1.4.24.2 Elements

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

Element	Description
<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.

#### 3.1.4.24.2.1 GetActionParametersForAction

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

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

**actionId:** The MetadataObjectId of the Action.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.24.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetActionParametersForActionResult" nillable="true"
        type="tns6:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetActionParametersForActionResult:** The list of ActionParameters that are contained by the specified Action. The partition (1) of these **ActionParameters** MUST be the partition (1) of the protocol client.

### 3.1.4.24.3 Complex Types

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

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

#### 3.1.4.24.3.1 ArrayOfActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of **ActionParameters**.

```
<xs:complexType name="ArrayOfActionParameterStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
      nillable="true" type="tns6:ActionParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

**ActionParameterStruct:** An ActionParameter of an Action.

#### 3.1.4.24.4 Simple Types

None.

#### 3.1.4.24.5 Attributes

None.



### 3.1.4.24.6 Groups

None.

### 3.1.4.24.7 Attribute Groups

None.

### 3.1.4.25 GetActionsForEntity

The **GetActionsForEntity** operation retrieves the Actions of the specified Entity.

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

```
<wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7: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/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/EntityMetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/EntityMetadataObjectNotFoundExceptionState">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Entity</b> does not exist. <52>

### 3.1.4.25.1 Messages

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

Message	Description
<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.

#### 3.1.4.25.1.1

### **BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.25.1.2

### **BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage**

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

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

### 3.1.4.25.2 Elements

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

Element	Description
<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.

#### 3.1.4.25.2.1 GetActionsForEntity

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

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

**entityId:** The MetadataObjectId of the Entity.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.25.2.2 GetActionsForEntityResponse

The **GetActionsForEntityResponse** element specifies the result data for the **GetActionsForEntity** WSDL operation.

```
<xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetActionsForEntityResult" nillable="true" type="tns6:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetActionsForEntityResult:** The list of Actions that are contained by the specified **Entity**. The partition (1) of each of these **Actions** MUST be the partition (1) of the protocol client.

### 3.1.4.25.3 Complex Types

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

Complex type	Description
<b>ArrayOfActionStruct</b>	Contains a list of Actions.

### 3.1.4.25.3.1 ArrayOfActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of Actions.

```
<xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
      type="tns6:ActionStruct"/>
  </xs:sequence>
</xs:complexType>
```

**ActionStruct:** An **Action** of an Entity.

### 3.1.4.25.4 Simple Types

None.

### 3.1.4.25.5 Attributes

None.

### 3.1.4.25.6 Groups

None.

### 3.1.4.25.7 Attribute Groups

None.

### 3.1.4.26 GetAllLocalizedNames

The **GetAllLocalizedNames** operation retrieves all localized names of the specified MetadataObject.

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

```
<wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"/>
```

```

message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.<53>

### 3.1.4.26.1 Messages

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

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

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

### 3.1.4.26.1.1

#### **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.26.1.2

#### **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage**

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

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

### 3.1.4.26.2 Elements

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

Element	Description
<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.

#### 3.1.4.26.2.1 **GetAllLocalizedNames**

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

```
<xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

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

**partitionId:** The partition (1) of the protocol client.

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

**merged:** Specifies whether the default **Setting** is to be considered in the operation when the *settingId* parameter is not NULL. The value MUST be one of those 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> .

### 3.1.4.26.2.2 GetAllLocalizedNamesResponse

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

```
<xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAllLocalizedNamesResult" nillable="true" type="tns6:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllLocalizedNamesResult:** The list of localized names of the specified MetadataObject.

### 3.1.4.26.3 Complex Types

None.

### 3.1.4.26.4 Simple Types

None.

### 3.1.4.26.5 Attributes

None.

### 3.1.4.26.6 Groups

None.

### 3.1.4.26.7 Attribute Groups

None.

### 3.1.4.27 GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** operation retrieves all localized names of the specified MetadataObject for the specified Setting.

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

```
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```



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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the specified <b>MetadataObject</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>MetadataObject</b> does not exist. <54>

### 3.1.4.27.1 Messages

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

Message	Description
<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.

#### 3.1.4.27.1.1

### **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.27.1.2

#### **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage**

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

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

### 3.1.4.27.2 Elements

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

Element	Description
<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.

#### 3.1.4.27.2.1 GetAllLocalizedNamesForMetadataObjectStruct

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

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The **MetadataObject** for which the operation MUST return the localized names. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

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

**merged:** Specifies whether the default **Setting** is to be considered in the operation if the *settingId* parameter is not NULL. The value MUST be one of those in the following table.

Value	Description
true	The protocol server MUST include a localized name from the default <b>Setting</b> if a localized name with the same language code identifier (LCID) does not exist for the specified <b>Setting</b> .

Value	Description
false	The protocol server MUST return the localized names only for the specified <b>Setting</b> .

### 3.1.4.27.2 GetAllLocalizedNamesForMetadataObjectStructResponse

The **GetAllLocalizedNamesForMetadataObjectStructResponse** element specifies the result data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
        type="tns6:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllLocalizedNamesForMetadataObjectStructResult:** The list of localized names of the specified MetadataObject.

### 3.1.4.27.3 Complex Types

None.

### 3.1.4.27.4 Simple Types

None.

### 3.1.4.27.5 Attributes

None.

### 3.1.4.27.6 Groups

None.

### 3.1.4.27.7 Attribute Groups

None.

### 3.1.4.28 GetAllPartitionIds

The **GetAllPartitionIds** operation retrieves all distinct partition (1) identifiers.

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

```
<wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds"
    message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

### 3.1.4.28.1 Messages

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

Message	Description
<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.

#### 3.1.4.28.1.1

### **BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.28.1.2

#### **BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage**

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

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

### 3.1.4.28.2 Elements

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

Element	Description
<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.

#### 3.1.4.28.2.1 GetAllPartitionIds

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

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

#### 3.1.4.28.2.2 GetAllPartitionIdsResponse

The **GetAllPartitionIdsResponse** element specifies the result data for the **GetAllPartitionIds** WSDL operation.

```
<xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q10:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllPartitionIdsResult:** The list of partition (1) identifiers.

### 3.1.4.28.3 Complex Types

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

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

#### 3.1.4.28.3.1 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).

#### 3.1.4.28.4 Simple Types

None.

#### 3.1.4.28.5 Attributes

None.

#### 3.1.4.28.6 Groups

None.

#### 3.1.4.28.7 Attribute Groups

None.

#### 3.1.4.29 GetAllProperties

The **GetAllProperties** operation retrieves all **Properties** of the specified MetadataObject and the specified Setting.

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

```
<wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties"
    message="tns7: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"/>
</wsdl:operation>
```

```

message="tns7:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_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/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_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/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_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/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_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/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_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/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , the <b>MetadataObject</b> is a LobSystem or LobSystemInstance, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP

Error complex type	Condition
	request.
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2013/07/SharePointBusinessDataMetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2013/07/SharePointBusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.29.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_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.

#### 3.1.4.29.1.1 BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.29.1.2 BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage

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

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

### 3.1.4.29.2 Elements

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

Element	Description
<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.



### 3.1.4.29.2.1 GetAllProperties

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

```
<xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

**partitionId:** The partition (1) of the protocol client.

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

**merged:** The value MUST be ignored by the protocol server if no Setting is specified. If a **Setting** is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

### 3.1.4.29.2.2 GetAllPropertiesResponse

The **GetAllPropertiesResponse** element specifies the result data for the **GetAllProperties** WSDL operation.

```
<xs:element name="GetAllPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="tns6:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllPropertiesResult:** The list of **Properties**.

### 3.1.4.29.3 Complex Types

None.

### 3.1.4.29.4 Simple Types

None.

### 3.1.4.29.5 Attributes

None.

### 3.1.4.29.6 Groups

None.

### 3.1.4.29.7 Attribute Groups

None.

### 3.1.4.30 GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** operation retrieves all **Properties** of the specified **MetadataObject** from the specified **Setting**.

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

```
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:operation>
```

```

message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , the <b>MetadataObject</b> is a LobSystem or LobSystemInstance, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The MetadataObjectId of the specified <b>MetadataObject</b> is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.30.1 Messages

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

Message	Description
<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

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

### 3.1.4.30.1.1

#### **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.30.1.2

#### **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage**

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

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

### 3.1.4.30.2 Elements

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

Element	Description
<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.

#### 3.1.4.30.2.1 GetAllPropertiesForMetadataObjectStruct

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

```
<xs:element name="GetAllPropertiesForMetadataObjectStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <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 the partition (1) of the protocol client.

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

**merged:** The value MUST be ignored by the protocol server if no **Setting** is specified. If a Setting is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified, and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

### 3.1.4.30.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
        type="tns6:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAllPropertiesForMetadataObjectStructResult:** The list of **Properties**.

### 3.1.4.30.3 Complex Types

None.

### 3.1.4.30.4 Simple Types

None.

### 3.1.4.30.5 Attributes

None.

### 3.1.4.30.6 Groups

None.

### 3.1.4.30.7 Attribute Groups

None.

### 3.1.4.31 GetAssociationById

The **GetAssociationById** operation retrieves the Association with the specified MetadataObjectId.

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

```
<wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationById"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessDataMetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessDataMetadataObjectNotFoundExceptionState">Microsoft.SharePoint.BusinessData</a> )	An <b>Association</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.31.1 Messages

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

Message	Description
<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.

#### 3.1.4.31.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.31.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage**

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

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

### 3.1.4.31.2 Elements

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

Element	Description
<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.

#### 3.1.4.31.2.1 GetAssociationById

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

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

**associationId:** The MetadataObjectId of the Association.

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

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.31.2.2 GetAssociationByIdResponse

The **GetAssociationByIdResponse** element specifies the result data for the **GetAssociationById** WSDL operation.

```
<xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="tns6:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationByIdResult:** The Association. The partition (1) of this **Association** MUST be the partition (1) of the protocol client.



### 3.1.4.31.3 Complex Types

None.

### 3.1.4.31.4 Simple Types

None.

### 3.1.4.31.5 Attributes

None.

### 3.1.4.31.6 Groups

None.

### 3.1.4.31.7 Attribute Groups

None.

### 3.1.4.32 GetAssociationGroupById

The **GetAssociationGroupById** operation retrieves the AssociationGroup with the specified MetadataObjectId.

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

```
<wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionState
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/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	An <b>AssociationGroup</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.32.1 Messages

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

Message	Description
<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.

### 3.1.4.32.1.1

#### BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.32.1.2

#### BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage

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

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

### 3.1.4.32.2 Elements

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

Element	Description
<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.

#### 3.1.4.32.2.1 GetAssociationGroupById

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

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

**associationGroupId:** The MetadataObjectId of the AssociationGroup.

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

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.32.2.2 GetAssociationGroupByIdResponse

The **GetAssociationGroupByIdResponse** element specifies the result data for the **GetAssociationGroupById** WSDL operation.

```
<xs:element name="GetAssociationGroupByIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationGroupByIdResult" nillable="true" type="tns6:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationGroupByIdResult:** The AssociationGroup. The partition (1) of this **AssociationGroup** MUST be the partition (1) of the protocol client.

### 3.1.4.32.3 Complex Types

None.

### 3.1.4.32.4 Simple Types

None.

### 3.1.4.32.5 Attributes

None.

### 3.1.4.32.6 Groups

None.

### 3.1.4.32.7 Attribute Groups

None.

### 3.1.4.33 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId.

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

```
<wsdl:operation name="GetAssociationGroupsForEntity"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
    message="tns7: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="tns7: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="tns7: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/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_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/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").<55>
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	An Entity with the specified <b>MetadataObjectId</b> does not exist.<56>

### 3.1.4.33.1 Messages

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

Message	Description
<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.

#### 3.1.4.33.1.1

##### **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.33.1.2

##### **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage**

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

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

### 3.1.4.33.2 Elements

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

Element	Description
<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.

### 3.1.4.33.2.1 GetAssociationGroupsForEntity

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

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

**entityId:** The MetadataObjectId of the Entity.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.33.2.2 GetAssociationGroupsForEntityResponse

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

```
<xs:element name="GetAssociationGroupsForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="tns6:ArrayOfAssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationGroupsForEntityResult:** The list of AssociationGroups. The partition (1) of each **AssociationGroup** in the list MUST be the partition (1) of the protocol client.

### 3.1.4.33.3 Complex Types

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

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

#### 3.1.4.33.3.1 ArrayOfAssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of AssociationGroups.

```

<xs:complexType name="ArrayOfAssociationGroupStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns6:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>

```

### **AssociationGroupStruct: An AssociationGroup.**

#### **3.1.4.33.4 Simple Types**

None.

#### **3.1.4.33.5 Attributes**

None.

#### **3.1.4.33.6 Groups**

None.

#### **3.1.4.33.7 Attribute Groups**

None.

### **3.1.4.34 GetAssociationMembersInRole**

The **GetAssociationMembersInRole** operation retrieves the source or destination Entities of the specified Association.

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

```

<wsdl:operation name="GetAssociationMembersInRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns7: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="tns7: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="tns7: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/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionS
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/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRange
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0"), or the value of the <b>role</b> parameter is not zero ("0") or "1".
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Association</b> does not exist, or refers to one or more nonexistent <b>Entities</b> , or refers to one or more empty <b>Entities</b> or null.

### 3.1.4.34.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage</b>	The request WSDL message for the <b>GetAssociationMembersI</b>

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

### 3.1.4.34.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.34.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage**

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

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

### 3.1.4.34.2 Elements

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

Element	Description
<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.

#### 3.1.4.34.2.1 GetAssociationMembersInRole

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

```
<xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**associationId:** The MetadataObjectId of the Association.

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

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

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.34.2.2 GetAssociationMembersInRoleResponse

The **GetAssociationMembersInRoleResponse** element specifies the result data for the **GetAssociationMembersInRole** WSDL operation.

```

<xs:element name="GetAssociationMembersInRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="tns6:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAssociationMembersInRoleResult:** The list of source or destination Entities.

### 3.1.4.34.3 Complex Types

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

Complex type	Description
<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.

#### 3.1.4.34.3.1 ArrayOfAssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationship between Entities and Associations.

```
<xs:complexType name="ArrayOfAssociationMemberStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="tns6:AssociationMemberStruct"/>
  </xs:sequence>
</xs:complexType>
```

**AssociationMemberStruct:** Contains information about the relationship between an **Entity** and an **Association**.

### 3.1.4.34.3.2 AssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an Entity and an Association.

```
<xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

**\_entityName:** The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, this value MUST have at least 1 and at most 255 Unicode characters.

**\_entityNamespace:** The namespace of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, the value MUST have at least 1 and at most 255 Unicode characters.

**associationId:** The MetadataObjectId of the **Association** referencing the **Entity**. The value of this element MUST be in the range 1-0x7ffffff.

**entityId:** The **MetadataObjectId** of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be in the range 1-0x7ffffff. Otherwise, the value MUST be zero.

**partitionId:** The partition (1) of the **Association**.

**role:** Specifies whether the **Entity** is a source or the destination of the **Association**. The following table describes possible values.

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

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

### 3.1.4.34.4 Simple Types

None.

### 3.1.4.34.5 Attributes

None.

### 3.1.4.34.6 Groups

None.

### 3.1.4.34.7 Attribute Groups

None.

### 3.1.4.35 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** operation retrieves the AssociationReferences contained by the specified AssociationGroup.

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

```
<wsdl:operation name="GetAssociationReferencesForAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns7: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="tns7: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/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Me
tadataExceptionStateFault_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="tns7: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="tns7: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="tns7: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/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero ("0").
<a href="http://Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>AssociationGroup</b> does not exist. <57>

### 3.1.4.35.1 Messages

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

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

Message	Description
<b>AssociationGroup_OutputMessage</b>	<b>GetAssociationReferencesForAssociationGroup</b> WSDL operation.

### 3.1.4.35.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.35.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage**

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

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

### 3.1.4.35.2 Elements

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

Element	Description
<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.

#### 3.1.4.35.2.1 **GetAssociationReferencesForAssociationGroup**

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

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

```

    <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**associationGroupId:** The MetadataObjectId of the AssociationGroup.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.35.2.2 GetAssociationReferencesForAssociationGroupResponse

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

```

<xs:element name="GetAssociationReferencesForAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="tns6:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAssociationReferencesForAssociationGroupResult:** The list of AssociationReferences. The partition (1) of each **AssociationReference** in the list MUST be the partition (1) of the protocol client.

### 3.1.4.35.3 Complex Types

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

Complex type	Description
<b>ArrayOfAssociationReferenceStruct</b>	Contains a list of AssociationReferences.

#### 3.1.4.35.3.1 ArrayOfAssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type contains a list of AssociationReferences.

```

<xs:complexType name="ArrayOfAssociationReferenceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="tns6:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>

```



## AssociationReferenceStruct: An AssociationReference.

### 3.1.4.35.4 Simple Types

None.

### 3.1.4.35.5 Attributes

None.

### 3.1.4.35.6 Groups

None.

### 3.1.4.35.7 Attribute Groups

None.

### 3.1.4.36 GetAssociationsForDataClass

The **GetAssociationsForDataClass** operation retrieves the Associations that are contained by the specified DataClass.

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

```
<wsdl:operation name="GetAssociationsForDataClass"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
  </pre>
```

```

message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>DataClass</b> does not exist. <58>

### 3.1.4.36.1 Messages

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

Message	Description
<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.

#### 3.1.4.36.1.1

### **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.36.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage**

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

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

### 3.1.4.36.2 Elements

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

Element	Description
<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.

#### 3.1.4.36.2.1 GetAssociationsForDataClass

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

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

**dataClassId:** The MetadataObjectId of the DataClass. The value of this element MUST be in the range from 1 through 0x7fffffff.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.36.2.2 GetAssociationsForDataClassResponse

The **GetAssociationsForDataClassResponse** element specifies the result data for the **GetAssociationsForDataClass** WSDL operation.

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

```

    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationsForDataClassResult" nillable="true"
        type="tns6:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAssociationsForDataClassResult:** The list of Associations. The partition (1) of each of these **Associations** MUST be the partition (1) of the protocol client.

### 3.1.4.36.3 Complex Types

None.

### 3.1.4.36.4 Simple Types

None.

### 3.1.4.36.5 Attributes

None.

### 3.1.4.36.6 Groups

None.

### 3.1.4.36.7 Attribute Groups

None.

### 3.1.4.37 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** operation retrieves the Associations that reference the specified Entity as **Association** source or **Association** destination.

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

```

<wsdl:operation name="GetAssociationsForEntityAndRole"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_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/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_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/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_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/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0"), or the <b>role</b> parameter is not set to zero ("0") or "1".
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>Entity</b> does not exist.

### 3.1.4.37.1 Messages

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

Message	Description
<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.

### 3.1.4.37.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.37.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage**

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

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

### 3.1.4.37.2 Elements

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

Element	Description
<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.

#### 3.1.4.37.2.1 **GetAssociationsForEntityAndRole**

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

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

```

<xs:sequence>
  <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
  <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
  <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

**entityId:** The MetadataObjectId of the Entity.

**role:** Specifies whether the **Entity** is a source or the destination of the Association. The following table describes possible values.

Value	Description
0	The <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 following table describes possible values.

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 Entity that is not active.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.37.2.2 GetAssociationsForEntityAndRoleResponse

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

```

<xs:element name="GetAssociationsForEntityAndRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="tns6:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAssociationsForEntityAndRoleResult:** The list of Associations. The partition (1) of each of these **Associations** MUST be the partition (1) of the protocol client.

### 3.1.4.37.3 Complex Types

None.

### 3.1.4.37.4 Simple Types

None.

### 3.1.4.37.5 Attributes

None.

### 3.1.4.37.6 Groups

None.

### 3.1.4.37.7 Attribute Groups

None.

### 3.1.4.38 GetAssociationsForMethod

The **GetAssociationsForMethod** operation retrieves the Associations that are contained by the specified Method.

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

```
<wsdl:operation name="GetAssociationsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns7: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="tns7: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/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Method</b> does not exist. <59>

### 3.1.4.38.1 Messages

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

Message	Description
<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.

#### 3.1.4.38.1.1

### **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.38.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage**

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

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

### 3.1.4.38.2 Elements

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

Element	Description
<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.

#### 3.1.4.38.2.1 GetAssociationsForMethod

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

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

**methodId:** The MetadataObjectId of the Method. The value of this element MUST be in the range from 1 through 0x7fffffff.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.38.2.2 GetAssociationsForMethodResponse

The **GetAssociationsForMethodResponse** element specifies the result data for the **GetAssociationsForMethod** WSDL operation.

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
      name="GetAssociationsForMethodResult" nillable="true" type="tns6:ArrayOfAssociationStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetAssociationsForMethodResult:** The list of Associations. The partition (1) of each of these **Associations** MUST be the partition (1) of the protocol client.

### 3.1.4.38.3 Complex Types

None.

### 3.1.4.38.4 Simple Types

None.

### 3.1.4.38.5 Attributes

None.

### 3.1.4.38.6 Groups

None.

### 3.1.4.38.7 Attribute Groups

None.

### 3.1.4.39 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** operation retrieves the cache version stamps, that were modified after the specified time.

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

```

<wsdl:operation name="GetCacheInvalidationRecordsSince"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetCacheInvalidationRecordsSince"
    message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetCacheInvalidationRecordsSinceResponse"
    message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
    name="AccessDeniedExceptionFault"
  >

```

```

message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedE
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/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_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/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormat
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_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/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_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/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

### 3.1.4.39.1 Messages

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

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

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

### 3.1.4.39.1.1

#### **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage**

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

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince
```

The SOAP body contains the **GetCacheInvalidationRecordsSince** element.

### 3.1.4.39.1.2

#### **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage**

The response WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

The SOAP body contains the **GetCacheInvalidationRecordsSinceResponse** element.

### 3.1.4.39.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.39.2.1 **GetCacheInvalidationRecordsSince**

The **GetCacheInvalidationRecordsSince** element specifies the input data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSince"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**dateTime:** The implementation-specific timestamp to compare with the timestamp elements of the cache version stamps. This operation MUST return only cache version stamps with timestamp values greater than the specified value.

### 3.1.4.39.2.2 GetCacheInvalidationRecordsSinceResponse

The **GetCacheInvalidationRecordsSinceResponse** element specifies the result data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```

<xs:element name="GetCacheInvalidationRecordsSinceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetCacheInvalidationRecordsSinceResult" nillable="true"
        type="tns6:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetCacheInvalidationRecordsSinceResult:** The list of cache version stamps. The partition (1) of each of these cache version stamps MUST be the partition (1) of the protocol client.

### 3.1.4.39.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfCacheInvalidationRecordStruct</b>	Contains a cache version stamps.
<b>CacheInvalidationRecordStruct</b>	Contains information about the version stamps for the cache.

#### 3.1.4.39.3.1 ArrayOfCacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfCacheInvalidationRecordStruct** complex type contains a list of cache version stamps.

```

<xs:complexType name="ArrayOfCacheInvalidationRecordStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
      nillable="true" type="tns6:CacheInvalidationRecordStruct"/>
  </xs:sequence>

```

```
</xs:complexType>
```

**CacheInvalidationRecordStruct:** A cache version stamp.

### 3.1.4.39.3.2 CacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **CacheInvalidationRecordStruct** complex type MUST contain information about the version stamps for the cache. Each row in the result set MUST represent object cache version stamp for the contents or existence of a type of MetadataObject specified by its **CacheLine** element. This complex type is defined as follows.

```
<xs:complexType name="CacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
    <xs:element minOccurs="0" name="counter" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

**cacheLine:** Specifies that the information in the cache corresponds either to the contents or to the relationship to a type of **MetadataObject**. It MUST consist of one or more of the bit masks of the values from the following table.

Value	Description
0x00001	Corresponds to the contents of a LobSystem.
0x00002	Corresponds to the contents of a LobSystemInstance.
0x00004	Corresponds to the contents of a DataClass.
0x00008	Corresponds to the contents of an Entity.
0x00010	Corresponds to the contents of an Identifier.
0x00020	Corresponds to the contents of a Method.
0x00040	Corresponds to the contents of a MethodInstance.
0x00080	Corresponds to the contents of a FilterDescriptor.
0x00100	Corresponds to the contents of a Parameter.
0x00200	Corresponds to the contents of a TypeDescriptor.
0x00400	Corresponds to the contents of an Action.
0x00800	Corresponds to the contents of an ActionParameter.
0x01000	Corresponds to the contents of an Association.
0x08000	Corresponds to the contents of an AssociationGroup.

Value	Description
<b>0x10000</b>	Corresponds to the contents of a <b>MetadataCatalog</b> .
<b>0x000100000</b>	Corresponds to the relationship to a <b>LOBSystem</b> .
<b>0x000200000</b>	Corresponds to the relationship to a <b>LOBSystemInstance</b> .
<b>0x000400000</b>	Corresponds to the relationship to a <b>DataClass</b> .
<b>0x000800000</b>	Corresponds to the relationship to an <b>Entity</b> .
<b>0x001000000</b>	Corresponds to the relationship to an <b>Identifier</b> .
<b>0x002000000</b>	Corresponds to the relationship to a <b>Method</b> .
<b>0x004000000</b>	Corresponds to the relationship to a <b>MethodInstance</b> .
<b>0x008000000</b>	Corresponds to the relationship to a <b>FilterDescriptor</b> .
<b>0x010000000</b>	Corresponds to the relationship to a <b>Parameter</b> .
<b>0x020000000</b>	Corresponds to the relationship to a <b>TypeDescriptor</b> .
<b>0x040000000</b>	Corresponds to the relationship to an <b>Action</b> .
<b>0x080000000</b>	Corresponds to the relationship to an <b>ActionParameter</b> .
<b>0x100000000</b>	Corresponds to the relationship to an <b>Association</b> .
<b>0x200000000</b>	Corresponds to the relationship to an <b>AssociationGroup</b> .
<b>0x400000000</b>	Corresponds to the relationship to a <b>MetadataObject</b> .
<b>0x800000000</b>	Corresponds to the relationship to an ACE.

**counter:** The value representing the version of data structures or relationships of data structures tracking the changes made by the applications utilizing the protocol client.

**partitionId:** The partition (1) of the cache version stamp.

**timestamp:** The implementation-specific timestamp specifying the time at which this cache version stamp was last modified.

#### 3.1.4.39.4 Simple Types

None.

#### 3.1.4.39.5 Attributes

None.

#### 3.1.4.39.6 Groups

None.



### 3.1.4.39.7 Attribute Groups

None.

### 3.1.4.40 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** operation retrieves the TypeDescriptors contained by the specified **TypeDescriptor**.

The following is the WSDL port type specification of the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/01/Types/Microsoft.SharePoint.BusinessData.MetadataObjectNotFound">MetadataObjectNotFound</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/01/Types/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>TypeDescriptor</b> does not exist. <60>

### 3.1.4.40.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.40.1.1

### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor`

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptor** element.

### 3.1.4.40.1.2

#### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

### 3.1.4.40.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.40.2.1 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentTypeDescriptorId:** The MetadataObjectId of the TypeDescriptor.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.40.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse

The **GetChildTypeDescriptorsForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
        type="tns6:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetChildTypeDescriptorsForTypeDescriptorResult:** The list of TypeDescriptors. The partition (1) of each **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.40.3 Complex Types

None.

### 3.1.4.40.4 Simple Types

None.

### 3.1.4.40.5 Attributes

None.

### 3.1.4.40.6 Groups

None.

### 3.1.4.40.7 Attribute Groups

None.

### 3.1.4.41 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** operation retrieves the TypeDescriptors that reference Identifiers and are descendants of the specified **TypeDescriptor**. A **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the **TypeDescriptor** is also a descendent of the specified **TypeDescriptor** or the **TypeDescriptor** is contained by the specified **TypeDescriptor**. [<61>](#)

The following is the WSDL port type specification of the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
```

```

descriptor_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/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
criptor_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/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
criptor_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
criptor_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
criptor_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/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
criptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the specified <b>TypeDescriptor</b> is set to zero ("0")<62>.
<a href="http://schemas.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService">Microsoft.SharePoint.BusinessData</a> )	The specified <b>TypeDescriptor</b> does not exist.<63>

### 3.1.4.41.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.41.1.1

### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor`

The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

#### 3.1.4.41.1.2

### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

### 3.1.4.41.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.41.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="typeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorStruct:** The TypeDescriptor. The partition (1) of the **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.41.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
        type="tns6:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult:** The list of TypeDescriptors. The partition (1) of each of these **TypeDescriptors** MUST be the partition (1) of the protocol client.

### 3.1.4.41.3 Complex Types

None.

### 3.1.4.41.4 Simple Types

None.

### 3.1.4.41.5 Attributes

None.

### 3.1.4.41.6 Groups

None.

### 3.1.4.41.7 Attribute Groups

None.

### 3.1.4.42 GetDataClassById

The **GetDataClassById** operation retrieves the DataClass with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetDataClassById** WSDL operation.

```
<wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById"
    message="tns7: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="tns7: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/GetDataClassByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage"
    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="tns7: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="tns7:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>DataClass</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.42.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.42.1.1

##### **BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage**

The request WSDL message for the **GetDataClassById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById
```

The SOAP body contains the **GetDataClassById** element.

#### 3.1.4.42.1.2

##### **BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage**

The response WSDL message for the **GetDataClassById** WSDL operation.

The SOAP body contains the **GetDataClassByIdResponse** element.

### 3.1.4.42.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.42.2.1 GetDataClassById

The **GetDataClassById** element specifies the input data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **DataClass** with the specified **MetadataObjectId** exists. If a **DataClass** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.42.2.2 GetDataClassByIdResponse

The **GetDataClassByIdResponse** element specifies the result data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetDataClassByIdResult" nillable="true" type="tns6:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataClassByIdResult:** The DataClass. The partition (1) of this **DataClass** MUST be the partition (1) of the protocol client.

### 3.1.4.42.3 Complex Types

None.

### 3.1.4.42.4 Simple Types

None.

### 3.1.4.42.5 Attributes

None.

### 3.1.4.42.6 Groups

None.

### 3.1.4.42.7 Attribute Groups

None.

### 3.1.4.43 GetDataClassesForSystem

The **GetDataClassesForSystem** operation retrieves DataClasses contained by the specified LobSystem.

The following is the WSDL port type specification of the **GetDataClassesForSystem** WSDL operation.

```
<wsdl:operation name="GetDataClassesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionState
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/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/System">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">Microsoft.SharePoint.BusinessData</a> )	The specified <b>LOBSystem</b> does not exist. <64>

### 3.1.4.43.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.43.1.1

### **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage**

The request WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem
```

The SOAP body contains the **GetDataClassesForSystem** element.

### 3.1.4.43.1.2

#### **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage**

The response WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP body contains the **GetDataClassesForSystemResponse** element.

### 3.1.4.43.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.43.2.1 GetDataClassesForSystem

The **GetDataClassesForSystem** element specifies the input data for the **GetDataClassesForSystem** WSDL operation.

```
<xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**activeOnly:** Specifies the DataClasses to return. If this element is set to "true", only the active **DataClasses** MUST be returned. Otherwise, this operation MUST return **DataClasses** contained by the specified **LobSystem**, regardless of their active status.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.43.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetDataClassesForSystemResult" nillable="true" type="tns6:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataClassesForSystemResult:** The list of DataClasses. The partition (1) of each of these **DataClasses** MUST be the partition (1) of the protocol client.

### 3.1.4.43.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfDataClassStruct</b>	Contains a list of DataClasses.

#### 3.1.4.43.3.1 ArrayOfDataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list of DataClasses.

```
<xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
      type="tns6:DataClassStruct"/>
  </xs:sequence>
</xs:complexType>
```

**DataClassStruct:** A **DataClass**.

#### 3.1.4.43.4 Simple Types

None.

#### 3.1.4.43.5 Attributes

None.

#### 3.1.4.43.6 Groups

None.

### 3.1.4.43.7 Attribute Groups

None.

### 3.1.4.44 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** operation retrieves the DefaultValues of the specified TypeDescriptor.

The following is the WSDL port type specification of the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetDefaultValuesForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2010/03/Types/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2010/03/Types/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The <b>TypeDescriptor</b> with the specified <b>MetadataObjectId</b> does not exist.

### 3.1.4.44.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.44.1.1

### **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor
```

The SOAP body contains the **GetDefaultValuesForTypeDescriptor** element.



### 3.1.4.44.1.2

#### BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_Output Message

The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetDefaultValuesForTypeDescriptorResponse** element.

### 3.1.4.44.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.44.2.1 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorId:** The MetadataObjectId of the TypeDescriptor.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.44.2.2 GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
        type="tns6:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetDefaultValuesForTypeDescriptorResult:** The DefaultValues of the specified TypeDescriptor.

### 3.1.4.44.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfDefaultValueStruct	Contains a list of DefaultValues.

#### 3.1.4.44.3.1 ArrayOfDefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

A complex type that specifies a list of DefaultValues, as follows.

```
<xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true"
      type="tns6:DefaultValueStruct"/>
  </xs:sequence>
</xs:complexType>
```

**DefaultValueStruct:** A DefaultValue.

#### 3.1.4.44.4 Simple Types

None.

#### 3.1.4.44.5 Attributes

None.

#### 3.1.4.44.6 Groups

None.

#### 3.1.4.44.7 Attribute Groups

None.

### 3.1.4.45 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** operation retrieves the Entities that perform the role of source or destination for the specified Association.

The following is the WSDL port type specification of the **GetEntitiesForAssociationAndRole** WSDL operation.

```

<wsdl:operation name="GetEntitiesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns7: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/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_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/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The value of the <b>role</b> parameter is not zero ("0") or "1".<65>
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Association</b> does not exist.<66>

### 3.1.4.45.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.45.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage**

The request WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole
```

The SOAP body contains the **GetEntitiesForAssociationAndRole** element.

#### 3.1.4.45.1.2

### **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage**

The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntitiesForAssociationAndRoleResponse** element.

### 3.1.4.45.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.45.2.1 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationId:** The MetadataObjectId of the Association.

**role:** Specifies the Entities to be returned. The following table describes possible values.

Value	Description
0	The <b>Entities</b> are sources of the <b>Association</b> .
1	The <b>Entity</b> is the destinations of the <b>Association</b> .

**activeOnly:** This element MUST contain information about the **Entities** to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities**, regardless of the active status.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.45.2.2 GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesForAssociationAndRoleResult" nillable="true"
        type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetEntitiesForAssociationAndRoleResult:** The list of Entities. The partition (1) of these **Entities** MUST be the partition (1) of the protocol client.

### 3.1.4.45.3 Complex Types

None.

### 3.1.4.45.4 Simple Types

None.

### 3.1.4.45.5 Attributes

None.

### 3.1.4.45.6 Groups

None.

### 3.1.4.45.7 Attribute Groups

None.

### 3.1.4.46 GetEntitiesForSystem

The **GetEntitiesForSystem** operation retrieves Entities of the specified LobSystem.

The following is the WSDL port type specification of the **GetEntitiesForSystem** WSDL operation.

```
<wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem"
    message="tns7: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="tns7: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/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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"
  </wsdl:fault
</wsdl:operation>
```

```

message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_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/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_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/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> does not exist. <67>

### 3.1.4.46.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.46.1.1

#### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage

The request WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem
```

The SOAP body contains the **GetEntitiesForSystem** element.

### 3.1.4.46.1.2

#### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage

The response WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP body contains the **GetEntitiesForSystemResponse** element.

### 3.1.4.46.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.46.2.1 GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**activeOnly:** This element MUST contain information about the Entities to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities**, regardless of the active status.

**partitionId:** The partition (1) of the protocol client.



### 3.1.4.46.2.2 GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesForSystemResult:** The list of Entities. The partition (1) of these **Entities** MUST be the partition (1) of the protocol client.

### 3.1.4.46.3 Complex Types

None.

### 3.1.4.46.4 Simple Types

None.

### 3.1.4.46.5 Attributes

None.

### 3.1.4.46.6 Groups

None.

### 3.1.4.46.7 Attribute Groups

None.

### 3.1.4.47 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** operation retrieves the Entities that match the specified wildcard patterns for name and namespace.

An **Entity** matches the pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the **Entity**, the localized name of the **Entity** with language code identifier (LCID) set to zero, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.

An **Entity** matches the pattern specified by **wildcardedNamespace** if, and only if, **wildcardedNamespace** matches the namespace of the **Entity**.

The following is the WSDL port type specification of the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The length of the <b>wildcardedName</b> element exceeds 255 characters, or the length of the

Error complex type	Condition
	name of the <b>wildcardedNamespace</b> exceeds 255 characters, or the specified <b>wildcardedName</b> is invalid, or the specified <b>wildcardedNamespace</b> is invalid.

### 3.1.4.47.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.47.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage**

The request WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace`

The SOAP body contains the **GetEntitiesLikeNameAndNamespace** element.

#### 3.1.4.47.1.2

### **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage**

The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

### 3.1.4.47.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesLikeNameAndNamespace</b>	The input data for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL

Element	Description
	operation.
<b>GetEntitiesLikeNameAndNamespaceResponse</b>	The result data for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL operation.

### 3.1.4.47.2.1 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntitiesLikeNameAndNamespace"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**wildcardedNamespace:** The wildcard pattern to be used to retrieve the Entities whose namespace matches the wildcard pattern.

The following is the ABNF for the **wildcardedNamespace**.

```
wildcardedNamespace = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the namespace of the **Entities** with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**wildcardedName:** The wildcard pattern to be used to retrieve the **Entities** whose name or localized name matches the wildcard pattern.

The following is the ABNF for the **wildcardedName**.

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
```

```
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **Entities** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**callerCultureLcid:** The language code identifier (LCID) representing the locale to be used when retrieving the Entities.

**activeOnly:** This element **MUST** contain the information about the **Entities** to be returned. If set to "true", the returned **Entities** **MUST** all be active. Otherwise, this operation **MUST** return **Entities** regardless of the active status.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.47.2.2 GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesLikeNameAndNamespaceResult" nillable="true"
        type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesLikeNameAndNamespaceResult:** The list of Entities. The partition (1) of these **Entities** **MUST** be the partition (1) of the protocol client.

### 3.1.4.47.3 Complex Types

None.

### 3.1.4.47.4 Simple Types

None.

### 3.1.4.47.5 Attributes

None.

### 3.1.4.47.6 Groups

None.

### 3.1.4.47.7 Attribute Groups

None.

### 3.1.4.48 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** operation retrieves Entities that are referenced by the specified Model.

The following is the WSDL port type specification of the **GetEntitiesReferencedByModelId** WSDL operation.

```
<wsdl:operation name="GetEntitiesReferencedByModelId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId"
message="tns7: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="tns7: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/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault_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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/ModelMetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/ModelMetadataObjectNotFoundExceptionState">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Model</b> does not exist. <68>

### 3.1.4.48.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.48.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage**

The request WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId
```

The SOAP body contains the **GetEntitiesReferencedByModelId** element.

### 3.1.4.48.1.2

#### BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage

The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP body contains the **GetEntitiesReferencedByModelIdResponse** element.

### 3.1.4.48.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesReferencedByModelId</b>	The input data for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.
<b>GetEntitiesReferencedByModelIdResponse</b>	The result data for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.

#### 3.1.4.48.2.1 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns5="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="mode"
type="tns5:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectId:** The MetadataObjectId of the Model.

**mode:** Specifies the Entities to be returned. The value of this element is specified in **EntityConstants.EntitiesInModelQuery** (section [3.1.4.48.4.1](#)).

**activeOnly:** This element MUST contain information about the **Entities** to be returned. If it is set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** The partition (1) of the protocol client.



### 3.1.4.48.2.2 GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesReferencedByModelIdResult" nillable="true" type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesReferencedByModelIdResult:** The list of Entities. The partition (1) of these **Entities** MUST be the partition (1) of the protocol client.

### 3.1.4.48.3 Complex Types

None.

### 3.1.4.48.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>EntityConstants.EntitiesInModelQuery</b>	Contains a list of Entities to be returned.

#### 3.1.4.48.4.1 EntityConstants.EntitiesInModelQuery

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants

Specifies the Entities to be returned.

```
<xs:simpleType name="EntityConstants.EntitiesInModelQuery"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllEntitiesInModel"/>
    <xs:enumeration value="OwnedEntitiesInModel"/>
    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **EntityConstants.EntitiesInModelQuery** simple type.

Value	Meaning
AllEntitiesInModel	Return all <b>Entities</b> referenced by the specified Model.

Value	Meaning
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> .

### 3.1.4.48.5 Attributes

None.

### 3.1.4.48.6 Groups

None.

### 3.1.4.48.7 Attribute Groups

None.

### 3.1.4.49 GetEntityById

The **GetEntityById** operation retrieves the Entity with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetEntityById** WSDL operation.

```
<wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
    message="tns7: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="tns7: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/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:fault>
</wsdl:operation>
```

```

message="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_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/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExcepState (from namespace Microsoft.SharePoint.BusinessData)</a>	An <b>Entity</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.49.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.49.1.1 BusinessDataCatalogSharedService\_GetEntityById\_InputMessage

The request WSDL message for the **GetEntityById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
EntityById

```

The SOAP body contains the **GetEntityById** element.

### 3.1.4.49.1.2 BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage

The response WSDL message for the **GetEntityById** WSDL operation.

The SOAP body contains the **GetEntityByIdResponse** element.

### 3.1.4.49.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.49.2.1 GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById** WSDL operation.

```
<xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if an **Entity** with the specified **MetadataObjectId** exists. If an **Entity** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.49.2.2 GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById** WSDL operation.

```
<xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetEntityByIdResult:** The Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.49.3 Complex Types

None.

### 3.1.4.49.4 Simple Types

None.

### 3.1.4.49.5 Attributes

None.

### 3.1.4.49.6 Groups

None.

### 3.1.4.49.7 Attribute Groups

None.

### 3.1.4.50 GetEntityCount

The **GetEntityCount** operation retrieves the number of Entities that are contained by the specified LobSystem.

The following is the WSDL port type specification of the **GetEntityCount** WSDL operation.

```
<wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount"
    message="tns7:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse"
    message="tns7:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
```

```

message="tns7: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/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7: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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero ("0").<69>
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LOBSystem</b> does not exist.<70>

### 3.1.4.50.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.50.1.1 BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage

The request WSDL message for the **GetEntityCount** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount
```

The SOAP body contains the **GetEntityCount** element.

### 3.1.4.50.1.2 BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage

The response WSDL message for the **GetEntityCount** WSDL operation.

The SOAP body contains the **GetEntityCountResponse** element.

### 3.1.4.50.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.50.2.1 GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.50.2.2 GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetEntityCountResult:** The number of Entities contained by the specified LobSystem.

### 3.1.4.50.3 Complex Types

None.

### 3.1.4.50.4 Simple Types

None.

### 3.1.4.50.5 Attributes

None.

### 3.1.4.50.6 Groups

None.

### 3.1.4.50.7 Attribute Groups

None.

### 3.1.4.51 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only **Entities** in the specified association role of source or destination are returned.

The following is the WSDL port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```

<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntityNameAndNamespacesForAssociationAndRole"
    message="tns7: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="tns7: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/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
    e_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```



```

edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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="tns7: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/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero, or the value of the <b>role</b> parameter is not zero ("0") or "1" <71>.
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/15/SoapTypes/MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Association</b> does not exist <72>.

### 3.1.4.51.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.51.1.1

#### **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage**

The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole>

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

### 3.1.4.51.1.2

#### **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage**

The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

### 3.1.4.51.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.51.2.1 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationId:** The MetadataObjectId of the Association for which the Entity information is to be returned.

**role:** A byte that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The following table describes possible values.

Value	Description
0	Returns a value for <b>Entities</b> that are referenced as <b>Association</b> sources by the specified <b>Association</b> .
1	Returns a value for <b>Entities</b> that are referenced as <b>Association</b> destination by the specified <b>Association</b> .

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.51.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="namespaces" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="names" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**namespaces:** The namespaces of the Entities that are referenced by the specified Association in the specified role of source or **Association** destination.

**names:** The names of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination. The order of these names **MUST** correspond to the order of

namespaces, so that the *n*th name and the *n*th namespace together describe the name and namespace of a single **Entity**.

### 3.1.4.51.3 Complex Types

None.

### 3.1.4.51.4 Simple Types

None.

### 3.1.4.51.5 Attributes

None.

### 3.1.4.51.6 Groups

None.

### 3.1.4.51.7 Attribute Groups

None.

## 3.1.4.52 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** operation retrieves the active Entity with the specified name and namespace in the specified partition (1).

The following is the WSDL port type specification of the **GetEntityWithNameAndNamespace** WSDL operation.

```
<wsdl:operation name="GetEntityWithNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_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/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns7: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/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage**

request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage**

response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified name or the specified namespace exceeds 255 characters.
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExcepionState (from namespace Microsoft.SharePoint.BusinessData)</a>	An active <b>Entity</b> with the specified namespace and name does not exist in the specified partition (1).

### 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_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.

### 3.1.4.52.1.1

#### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage**

The request WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace
```

The SOAP body contains the **GetEntityWithNameAndNamespace** element.

### 3.1.4.52.1.2

#### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage**

The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceResponse** element.

### 3.1.4.52.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.52.2.1 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**namespace:** The namespace of the Entity to be returned.

**name:** The name of the **Entity** to be returned.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.52.2 GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntityWithNameAndNamespaceResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntityWithNameAndNamespaceResult:** The Entity. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

### 3.1.4.52.3 Complex Types

None.

### 3.1.4.52.4 Simple Types

None.

### 3.1.4.52.5 Attributes

None.

### 3.1.4.52.6 Groups

None.

### 3.1.4.52.7 Attribute Groups

None.

### 3.1.4.53 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** operation retrieves the Entity with the specified name, namespace, and version.

The following is the WSDL port type specification of the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntityWithNameAndNamespaceAndVersion"
  >
```

```

message="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_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/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metada
taExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="#">ArgumentException (from namespace</a>	The length of the specified name or the



Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	length of the specified namespace exceeds 255 characters.
<a href="#">MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</a>	An <b>Entity</b> with the specified namespace and name and version does not exist in the specified partition (1).

### 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_GetEntityWithNameAndNamespaceAndVersion_InputMessage</b>	The request WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage</b>	The response WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL operation.

#### 3.1.4.53.1.1

### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage**

The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion
```

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersion** element.

#### 3.1.4.53.1.2

### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage**

The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

### 3.1.4.53.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.53.2.1 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersion"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns: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:** The partition (1) of the protocol client.

#### 3.1.4.53.2.2 GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true"
type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetEntityWithNameAndNamespaceAndVersionResult:** The Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

### 3.1.4.53.3 Complex Types

None.

### 3.1.4.53.4 Simple Types

None.

### 3.1.4.53.5 Attributes

None.

### 3.1.4.53.6 Groups

None.

### 3.1.4.53.7 Attribute Groups

None.

### 3.1.4.54 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** operation retrieves TypeDescriptors that correspond to fields (4) of the MethodInstance with the specified name in the specified Entity.

The following is the WSDL port type specification of the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance"
    message="tns7: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="tns7: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="tns7: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/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7: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/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metada
taExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_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/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_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/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invali
dOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	<p>The <b>MethodInstanceType</b> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel</a>) of the <b>MethodInstance</b> with the specified name in the specified <b>Entity</b> is not equal to any one of the following:</p> <ul style="list-style-type: none"> <li>▪ Finder</li> <li>▪ SpecificFinder</li> <li>▪ IdEnumerator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociationNavigator</li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ BulkIdEnumerator</li> <li>▪ Creator</li> <li>▪ Updater</li> </ul>
<a href="#">MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</a>	A <b>MethodInstance</b> with the specified name does not exist in the specified <b>Entity</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_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.

#### 3.1.4.54.1.1

### **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage**

The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance
```

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstance** element.

#### 3.1.4.54.1.2

### **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage**

The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

### 3.1.4.54.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.54.2.1 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstance"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodName" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodName:** The name of the MethodInstance.

**entityStruct:** The Entity. The partition (1) of the **Entity** MUST be the partition (1) of the protocol client.

#### 3.1.4.54.2.2 GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
        type="tns6:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFieldTypeDescriptorsByMethodInstanceResult:** The list of TypeDescriptors. The partition (1) of these **TypeDescriptors** MUST be the partition (1) of the protocol client.

### 3.1.4.54.3 Complex Types

None.

### 3.1.4.54.4 Simple Types

None.

### 3.1.4.54.5 Attributes

None.

### 3.1.4.54.6 Groups

None.

### 3.1.4.54.7 Attribute Groups

None.

### 3.1.4.55 GetFilterDescriptorById

The **GetFilterDescriptorById** operation retrieves the FilterDescriptor with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetFilterDescriptorById** WSDL operation.

```
<wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"
    message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse"
    message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"/>
```

```

message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>FilterDescriptor</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.55.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.



### 3.1.4.55.1.1

#### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage

The request WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById
```

The SOAP body contains the **GetFilterDescriptorById** element.

### 3.1.4.55.1.2

#### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage

The response WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP body contains the **GetFilterDescriptorByIdResponse** element.

### 3.1.4.55.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.55.2.1 GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**filterDescriptorId:** The MetadataObjectId of the FilterDescriptor.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **FilterDescriptor** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.55.2.2 GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorByIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetFilterDescriptorByIdResult" nillable="true" type="tns6:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFilterDescriptorByIdResult:** The FilterDescriptor that was returned. The partition (1) of this **FilterDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.55.3 Complex Types

None.

### 3.1.4.55.4 Simple Types

None.

### 3.1.4.55.5 Attributes

None.

### 3.1.4.55.6 Groups

None.

### 3.1.4.55.7 Attribute Groups

None.

### 3.1.4.56 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** operation retrieves the FilterDescriptors contained by the specified Method.

The following is the WSDL port type specification of the **GetFilterDescriptorsForMethod** WSDL operation.

```
<wsdl:operation name="GetFilterDescriptorsForMethod"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod"
    message="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the <b>Method</b> is set to zero ("0").<73>
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/01/01/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/01/01/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>Method</b> with the specified <b>MetadataObjectId</b> does not exist.<74>

### 3.1.4.56.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.56.1.1

##### **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage**

The request WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod
```

The SOAP body contains the **GetFilterDescriptorsForMethod** element.

#### 3.1.4.56.1.2

##### **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage**

The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP body contains the **GetFilterDescriptorsForMethodResponse** element.

### 3.1.4.56.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.56.2.1 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method for which the FilterDescriptors are obtained.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.56.2.2 GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="tns6:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFilterDescriptorsForMethodResult:** The list of FilterDescriptors. The partition (1) of these **FilterDescriptors** MUST be the partition (1) of the protocol client.

### 3.1.4.56.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfFilterDescriptorStruct</b>	Contains a list of FilterDescriptors.

#### 3.1.4.56.3.1 ArrayOfFilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of FilterDescriptors.

```

<xs:complexType name="ArrayOfFilterDescriptorStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
      nillable="true" type="tns6:FilterDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>

```

**FilterDescriptorStruct:** A **FilterDescriptor** of a Method.

### 3.1.4.56.4 Simple Types

None.

### 3.1.4.56.5 Attributes

None.

### 3.1.4.56.6 Groups

None.

### 3.1.4.56.7 Attribute Groups

None.

### 3.1.4.57 GetIdentifierById

The **GetIdentifierById** operation retrieves the Identifier with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetIdentifierById** WSDL operation.

```

<wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById"
    message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse"
    message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7: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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	An <b>Identifier</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.57.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.57.1.1

#### **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage**

The request WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById
```

The SOAP body contains the **GetIdentifierById** element.

### 3.1.4.57.1.2

#### **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage**

The response WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP body contains the **GetIdentifierByIdResponse** element.

### 3.1.4.57.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.57.2.1 GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById** WSDL operation.

```
<xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**identifierId:** The MetadataObjectId of the Identifier.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if an **Identifier** with the specified **MetadataObjectId** exists. If an **Identifier** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.



### 3.1.4.57.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="tns6:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetIdentifierByIdResult:** The Identifier that was returned. The partition (1) of this **Identifier** MUST be the partition (1) of the protocol client.

### 3.1.4.57.3 Complex Types

None.

### 3.1.4.57.4 Simple Types

None.

### 3.1.4.57.5 Attributes

None.

### 3.1.4.57.6 Groups

None.

### 3.1.4.57.7 Attribute Groups

None.

### 3.1.4.58 GetIdentifiersForEntity

The **GetIdentifiersForEntity** operation retrieves the Identifiers contained by the specified Entity.

The following is the WSDL port type specification of the **GetIdentifiersForEntity** WSDL operation.

```
<wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntity"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionState
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/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_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/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_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/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_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/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the <b>Entity</b> is set to zero ("0").<75>
<a href="http://schemas.microsoft.com/sharepoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	An <b>Entity</b> with the specified <b>MetadataObjectId</b> does not exist.<76>

### 3.1.4.58.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.58.1.1

#### **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage**

The request WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity
```

The SOAP body contains the **GetIdentifiersForEntity** element.

### 3.1.4.58.1.2

#### **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage**

The response WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP body contains the **GetIdentifiersForEntityResponse** element.

### 3.1.4.58.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetIdentifiersForEntity</b>	The input data for the <b>GetIdentifiersForEntity</b> WSDL operation.
<b>GetIdentifiersForEntityResponse</b>	The result data for the <b>GetIdentifiersForEntity</b> WSDL operation.

#### 3.1.4.58.2.1 GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity for which the Identifiers are to be obtained.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.58.2.2 GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntityResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetIdentifiersForEntityResult" nillable="true" type="tns6:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetIdentifiersForEntityResult:** The list of Identifiers. The partition (1) of these **Identifiers** MUST be the partition (1) of the protocol client.

### 3.1.4.58.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfIdentifierStruct</b>	Contains a list of Identifiers.

#### 3.1.4.58.3.1 ArrayOfIdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of Identifiers.

```
<xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
      type="tns6:IdentifierStruct"/>
  </xs:sequence>
</xs:complexType>
```

**IdentifierStruct:** An **Identifier** of an Entity.

#### 3.1.4.58.4 Simple Types

None.

### 3.1.4.58.5 Attributes

None.

### 3.1.4.58.6 Groups

None.

### 3.1.4.58.7 Attribute Groups

None.

### 3.1.4.59 GetImportProgress

The **GetImportProgress** operation retrieves the progress of an [ImportPackageWithProgress](#) operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the WSDL port type specification of the **GetImportProgress** WSDL operation.

```
<wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
    message="tns7:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
    message="tns7:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** response message, unless any faults occur.

#### 3.1.4.59.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.59.1.1

#### **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage**

The request WSDL message for the **GetImportProgress** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress
```

The SOAP body contains the **GetImportProgress** element.

### 3.1.4.59.1.2

#### **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage**

The response WSDL message for the **GetImportProgress** WSDL operation.

The SOAP body contains the **GetImportProgressResponse** element.

### 3.1.4.59.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.59.2.1 GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress** WSDL operation.

```
<xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="jobId" type="ser:guid"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**jobId:** The identifier of the import operation for which the progress is to be retrieved.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.59.2.2 GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress** WSDL operation.

```

<xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetImportProgressResult:** The fraction of the operation that is finished. The value MUST be in the range 0-1. The value MUST be zero if **jobId** is not recognized as a current import job.

### 3.1.4.59.3 Complex Types

None.

### 3.1.4.59.4 Simple Types

None.

### 3.1.4.59.5 Attributes

None.

### 3.1.4.59.6 Groups

None.

### 3.1.4.59.7 Attribute Groups

None.

### 3.1.4.60 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** operation retrieves the depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth zero. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1, plus the depth of the containing **TypeDescriptor**.

The following is the WSDL port type specification of the **GetLevelForTypeDescriptor** WSDL operation.

```

<wsdl:operation name="GetLevelForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
    message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
    message="tns7: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/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the specified <b>TypeDescriptor</b> is set to zero ("0").<77>
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/01/01/Types">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/01/01/Types">Microsoft.SharePoint.BusinessData</a> )	At least one of the following is true: <ul style="list-style-type: none"> <li>▪ The specified <b>TypeDescriptor</b> does not exist.&lt;78&gt;</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</li> </ul>



Error complex type	Condition
	<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.

### 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_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.

#### 3.1.4.60.1.1

### **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor
```

The SOAP body contains the **GetLevelForTypeDescriptor** element.

#### 3.1.4.60.1.2

### **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetLevelForTypeDescriptorResponse** element.

### 3.1.4.60.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

Element	Description
	operation.

### 3.1.4.60.2.1 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorStruct:** The TypeDescriptor. The partition (1) of the **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.60.2.2 GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLevelForTypeDescriptorResult:** The depth of the specified TypeDescriptor in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

### 3.1.4.60.3 Complex Types

None.

### 3.1.4.60.4 Simple Types

None.

### 3.1.4.60.5 Attributes

None.

### 3.1.4.60.6 Groups

None.

### 3.1.4.60.7 Attribute Groups

None.

### 3.1.4.61 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** operation retrieves the Business Logic Modules associated with the specified LobSystem if the **systemType** element of the specified **LobSystem** is not set to "Custom". If the **systemType** element of the specified **LobSystem** is set to "Custom", the behavior of this operation is implementation-specific<79>.

The following is the WSDL port type specification of the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<wsdl:operation name="GetLobSystemAllAssembliesBytes"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes"
    message="tns7: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="tns7: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="tns7: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/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateFault_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="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to read<80> the specified <b>LobSystem</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>MetadataObjectId</b> of the specified <b>LobSystem</b> is set to zero ("0").

### 3.1.4.61.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.61.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage**

The request WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes
```

The SOAP body contains the **GetLobSystemAllAssembliesBytes** element.

### 3.1.4.61.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage**

The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP body contains the **GetLobSystemAllAssembliesBytesResponse** element.

### 3.1.4.61.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.61.2.1 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytes"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem. The partition (1) of the **LobSystem** MUST be the partition (1) of the protocol client.

#### 3.1.4.61.2.2 GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
        type="q10:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetLobSystemAllAssembliesBytesResult:** The list of Business Logic Modules. If the specified LobSystem is not associated with any Business Logic Module, the protocol server MUST set the value of the element to NULL.

### 3.1.4.61.3 Complex Types

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.

#### 3.1.4.61.3.1 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.

#### 3.1.4.61.4 Simple Types

None.

#### 3.1.4.61.5 Attributes

None.

#### 3.1.4.61.6 Groups

None.

#### 3.1.4.61.7 Attribute Groups

None.

#### 3.1.4.62 GetLobSystemById

The **GetLobSystemById** operation retrieves the LobSystem with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetLobSystemById** WSDL operation.

```

<wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemById"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_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/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_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/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_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/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_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/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_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/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras</a>	The security principal (1) in whose context the protocol client is

Error complex type	Condition
<a href="#">structure</a> )	operating is not authorized to modify the <b>LobSystem</b> with the specified <b>MetadataObjectId</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section <a href="#">3.1</a> is present in the SOAP request.
<b>AccessDeniedExceptionState</b> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras</a> structure)	The specified <b>LobSystem</b> does not exist, the <b>CameThroughRemoteAdminService</b> header specified in section <a href="#">3.1</a> is present in the SOAP request, and the <b>performErrorCheck</b> element in the <b>GetLobSystemById</b> operation is set to "False".
<a href="#">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="#">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>LobSystem</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.62.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.62.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage**

The request WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById
```



The SOAP body contains the **GetLobSystemById** element.

### 3.1.4.62.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage**

The response WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP body contains the **GetLobSystemByIdResponse** element.

### 3.1.4.62.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.62.2.1 GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem that is to be retrieved.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **LobSystem** with the specified **MetadataObjectId** exists. If a **LobSystem** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section 3.1 is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.62.2.2 GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="tns6:LobSystemStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetLobSystemByIdResult:** The LobSystem. The partition (1) of the **LobSystem** MUST be the partition (1) of the protocol client.

### 3.1.4.62.3 Complex Types

None.

### 3.1.4.62.4 Simple Types

None.

### 3.1.4.62.5 Attributes

None.

### 3.1.4.62.6 Groups

None.

### 3.1.4.62.7 Attribute Groups

None.

## 3.1.4.63 GetLobSystemByName

The **GetLobSystemByName** operation retrieves the specified LobSystem.

The following is the WSDL port type specification of the **GetLobSystemByName** WSDL operation.

```

<wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByName"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to read<81> the specified <b>LobSystem</b> , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified name exceeds 255 characters.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</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_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.

### 3.1.4.63.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage**

The request WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName
```

The SOAP body contains the **GetLobSystemByName** element.

### 3.1.4.63.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage**

The response WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP body contains the **GetLobSystemByNameResponse** element.

### 3.1.4.63.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.63.2.1 **GetLobSystemByName**

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**name:** The name of the LobSystem.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.63.2.2 GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemByNameResult:** The LobSystem with the specified name. The partition (1) of this **LobSystem** MUST be the partition (1) of the protocol client.

### 3.1.4.63.3 Complex Types

None.

### 3.1.4.63.4 Simple Types

None.

### 3.1.4.63.5 Attributes

None.

### 3.1.4.63.6 Groups

None.

### 3.1.4.63.7 Attribute Groups

None.

### 3.1.4.64 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** operation retrieves Business Logic Modules [<82>](#) associated with the specified LobSystem.

The following is the WSDL port type specification of the **GetLobSystemDataByLobSystem** WSDL operation.

```
<wsdl:operation name="GetLobSystemDataByLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns7: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="tns7: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/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol

Error complex type	Condition
<a href="#">re)</a>	client is operating is not authorized to edit the specified <b>LobSystem</b> , and the <code>CameThroughRemoteAdmin</code> Service header specified in section <a href="#">3.1</a> is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The <code>MetadataObjectId</code> of the specified <b>LobSystem</b> is set to zero ("0"). <a href="#">&lt;83&gt;</a>
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>LobSystem</b> does not exist. <a href="#">&lt;84&gt;</a>

### 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_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.

#### 3.1.4.64.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage**

The request WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem
```

The SOAP body contains the **GetLobSystemDataByLobSystem** element.

#### 3.1.4.64.1.2

### **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage**

The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemDataByLobSystemResponse** element.

### 3.1.4.64.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.64.2.1 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem. The partition (1) of this **LobSystem** MUST be the partition (1) of the protocol client.

#### 3.1.4.64.2.2 GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemDataByLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemDataByLobSystemResult:** The information about the Business Logic Modules [<85>](#) associated with the specified LobSystem.

#### 3.1.4.64.3 Complex Types

None.



### 3.1.4.64.4 Simple Types

None.

### 3.1.4.64.5 Attributes

None.

### 3.1.4.64.6 Groups

None.

### 3.1.4.64.7 Attribute Groups

None.

### 3.1.4.65 GetLobSystemInstanceById

The **GetLobSystemInstanceById** operation retrieves the LobSystemInstance with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetLobSystemInstanceById** WSDL operation.

```
<wsdl:operation name="GetLobSystemInstanceById"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns7: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="tns7: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/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_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/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_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/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_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/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_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/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras tructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras tructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to modify the <b>LobSystemInstance</b> with the specified <b>MetadataObjectId</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<b>AccessDeniedExceptionState</b> (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infras tructure)	The specified <b>LobSystemInstance</b> does not exist , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request, and the <b>performErrorCheck</b> element in the request is set to "False".
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	A <b>LobSystemInstance</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.65.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage</b>	The request WSDL message for the <b>GetLobSystemInstanceById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemInstanceById</b> WSDL operation.

#### 3.1.4.65.1.1

##### **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage**

The request WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById
```

The SOAP body contains the **GetLobSystemInstanceById** element.

#### 3.1.4.65.1.2

##### **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage**

The response WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP body contains the **GetLobSystemInstanceByIdResponse** element.

### 3.1.4.65.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.65.2.1 GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById** WSDL operation.

```

<xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**lobSystemInstanceId:** The MetadataObjectId of the LobSystemInstance.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **LobSystemInstance** with the specified **MetadataObjectId** exists. If a **LobSystemInstance** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section 3.1 is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemInstanceByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.65.2.2 GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById** WSDL operation.

```

<xs:element name="GetLobSystemInstanceByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="tns6:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLobSystemInstanceByIdResult:** The LobSystemInstance. The partition (1) of this **LobSystemInstance** MUST be the partition (1) of the protocol client.

### 3.1.4.65.3 Complex Types

None.

### 3.1.4.65.4 Simple Types

None.

### 3.1.4.65.5 Attributes

None.

### 3.1.4.65.6 Groups

None.

### 3.1.4.65.7 Attribute Groups

None.

### 3.1.4.66 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** operation retrieves the list of **LobSystemInstances** of the specified **LobSystem**. If the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, only the **LobSystemInstances** that the security principal (1) in whose context the protocol client is operating is authorized to read <86> that are also contained by the specified **LobSystem** are retrieved.

The following is the WSDL port type specification of the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<wsdl:operation name="GetLobSystemInstancesForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns7: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="tns7: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/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7: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/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").<87>
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessDataExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>LobSystem</b> does not exist.<88>

### 3.1.4.66.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.66.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage**

The request WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem

```

The SOAP body contains the **GetLobSystemInstancesForLobSystem** element.

### 3.1.4.66.1.2

#### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage

The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemInstancesForLobSystemResponse** element.

### 3.1.4.66.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.66.2.1 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.66.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetLobSystemInstancesForLobSystemResult" nillable="true"
        type="tns6:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetLobSystemInstancesForLobSystemResult:** The list of LobSystemInstances of the specified LobSystem. The partition (1) of these **LobSystemInstances** MUST be the partition (1) of the protocol client.

### 3.1.4.66.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfLobSystemInstanceStruct</b>	Contains a list of LobSystemInstances.

#### 3.1.4.66.3.1 ArrayOfLobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type contains a list of LobSystemInstances.

```
<xs:complexType name="ArrayOfLobSystemInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="tns6:LobSystemInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

**LobSystemInstanceStruct:** This element contains information about a **LobSystemInstance**.

#### 3.1.4.66.4 Simple Types

None.

#### 3.1.4.66.5 Attributes

None.

#### 3.1.4.66.6 Groups

None.

#### 3.1.4.66.7 Attribute Groups

None.

#### 3.1.4.67 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** operation retrieves the implementation-specific Business Logic Module [<89>](#) associated with the specified LobSystem.



The following is the WSDL port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId"
    message="tns7: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="tns7: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/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataExceptionStateFault_FaultMessage"
    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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrasructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrasructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to read<90> the specified <b>LobSystem</b> , and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The MetadataObjectId of the specified <b>LobSystem</b> is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> has an invalid value for the <b>Property</b> named <b>SystemUtilityTypeName</b> . Validity of this <b>Property</b> is specified in section 3.1.4.83.2.2.

### 3.1.4.67.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.67.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage**

The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId>

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

### 3.1.4.67.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage**

The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

### 3.1.4.67.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.67.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem from which to retrieve the implementation-specific Business Logic Module. The partition (1) of this **LobSystem** MUST be the partition (1) of the protocol client.

#### 3.1.4.67.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```
<xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
nillable="true" type="xs:base64Binary"/>
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetLobSystemProxyAssemblyBytesByLobSystemIdResult:** The implementation-specific Business Logic Module<[91](#)> associated with the specified LobSystem. If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the first defined **Business Logic Module**, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23. If the **LobSystem** does not exist or no **Business Logic Module** is found for the specified **LobSystem**, this element MUST be NULL.

### 3.1.4.67.3 Complex Types

None.

### 3.1.4.67.4 Simple Types

None.

### 3.1.4.67.5 Attributes

None.

### 3.1.4.67.6 Groups

None.

### 3.1.4.67.7 Attribute Groups

None.

### 3.1.4.68 GetLobSystemsLikeName

The **GetLobSystemsLikeName** operation retrieves the LobSystems that match the specified wildcard pattern.

If the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, only the **LobSystems** that the security principal (1) in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.

A **LobSystem** matches the wildcard pattern specified by **searchLikeName** if any of the following conditions is true:

- The **searchLikeName** matches the name of the **LobSystem**.
- The **searchLikeName** matches the localized name of the **LobSystem** and the **LobSystem**'s localized name has its language code identifier (LCID) set to zero or set to the **LCID** specified by **callerCultureLcid**.

The following is the WSDL port type specification of the **GetLobSystemsLikeName** WSDL operation.

```

<wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeName"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_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/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is

Error complex type	Condition
	invalid.

### 3.1.4.68.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.68.1.1

##### **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage**

The request WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName`

The SOAP body contains the **GetLobSystemsLikeName** element.

#### 3.1.4.68.1.2

##### **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage**

The response WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP body contains the **GetLobSystemsLikeNameResponse** element.

### 3.1.4.68.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.68.2.1 GetLobSystemsLikeName

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName** WSDL operation.

```
<xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**searchLikeName:** The wildcard pattern to be used to retrieve the LobSystems in which the name or localized name matches the wildcard pattern. The following code example shows the ABNF for the **searchLikeName**.

```
searchLikeName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **LobSystems** with the value of "searchLikeName" when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**callerCultureLcid:** The language code identifier (LCID) representing the locale to be used when retrieving the **LobSystems**.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.68.2.2 GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName** WSDL operation.

```
<xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="tns6:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemsLikeNameResult:** The list of LobSystems. The partition (1) of these **LobSystems** MUST be the partition (1) of the protocol client.

### 3.1.4.68.3 Complex Types

None.

### 3.1.4.68.4 Simple Types

None.

### 3.1.4.68.5 Attributes

None.

### 3.1.4.68.6 Groups

None.

### 3.1.4.68.7 Attribute Groups

None.

## 3.1.4.69 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the **LobSystems** that the security principal (1) in whose context the protocol client is operating is authorized to read <92> that are also referenced by **Entities** associated with the specified **Model** are retrieved.

The following is the WSDL port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
```



```

message="tns7: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/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_MetadataExceptionStateFault_FaultMessage"
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="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").<93>
<a href="http://schemas.datacontract.org/2004/07/System">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Model</b> does not exist.<94>

### 3.1.4.69.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.69.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage**

The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel
```

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

### 3.1.4.69.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage**

The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

### 3.1.4.69.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.69.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:tns5="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
        aModel.Constants" minOccurs="0" name="queryMode"
        type="tns5:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelId:** The MetadataObjectId of the specified Model.

**queryMode:** The mode that specifies the LobSystems to be retrieved. This value MUST be an **LobSystemConstants.LobSystemsInModelQuery** element.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.69.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
        type="tns6:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemsReferencedByEntitiesAssociatedWithModelResult:** The list of LobSystems. The partition (1) of these **LobSystems** MUST be the partition (1) of the protocol client.

### 3.1.4.69.3 Complex Types

None.

### 3.1.4.69.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>LobSystemConstants.LobSystemsInModelQuery</b>	Specifies the mode in which to retrieve LobSystems.

### 3.1.4.69.4.1 LobSystemConstants.LobSystemsInModelQuery

#### Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode that determines the LobSystems to be retrieved.

```
<xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllLobSystemsInModel"/>
    <xs:enumeration value="OwnedLobSystemsInModel"/>
    <xs:enumeration value="SharedLobSystemsInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **LobSystemConstants.LobSystemsInModelQuery** simple type.

Value	Meaning
AllLobSystemsInModel	All <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> .

### 3.1.4.69.5 Attributes

None.

### 3.1.4.69.6 Groups

None.

### 3.1.4.69.7 Attribute Groups

None.

### 3.1.4.70 GetMethodById

The **GetMethodById** operation retrieves the Method with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetMethodById** WSDL operation.

```

<wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodById"
message="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").

Error complex type	Condition
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	A <b>Method</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.70.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodById_InputMessage</b>	The request WSDL message for the <b>GetMethodById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodById_OutputMessage</b>	The response WSDL message for the <b>GetMethodById</b> WSDL operation.

#### 3.1.4.70.1.1 BusinessDataCatalogSharedService\_GetMethodById\_InputMessage

The request WSDL message for the **GetMethodById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById
```

The SOAP body contains the **GetMethodById** element.

#### 3.1.4.70.1.2 BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage

The response WSDL message for the **GetMethodById** WSDL operation.

The SOAP body contains the **GetMethodByIdResponse** element.

### 3.1.4.70.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.70.2.1 GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId for the Method.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Method** with the specified **MetadataObjectId** exists. If a **Method** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.70.2.2 GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="tns6:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodByIdResult:** The Method. The partition (1) of this **Method** MUST be the partition (1) of the protocol client.

### 3.1.4.70.3 Complex Types

None.

### 3.1.4.70.4 Simple Types

None.

### 3.1.4.70.5 Attributes

None.

### 3.1.4.70.6 Groups

None.

### 3.1.4.70.7 Attribute Groups

None.

### 3.1.4.71 GetMethodInstanceById

The **GetMethodInstanceById** operation retrieves the MethodInstance with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetMethodInstanceById** WSDL operation.

```
<wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```



The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessData">MetadataObjectNotFoundExcepState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/SharePointBusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>MethodInstance</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.71.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.71.1.1

#### **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage**

The request WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById
```

The SOAP body contains the **GetMethodInstanceById** element.

#### 3.1.4.71.1.2

#### **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage**

The response WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP body contains the **GetMethodInstanceByIdResponse** element.

### 3.1.4.71.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.71.2.1 GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById** WSDL operation.

```
<xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodInstanceId:** The MetadataObjectId of the MethodInstance.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.71.2.2 GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById** WSDL operation.

```
<xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="tns6:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodInstanceByIdResult:** The MethodInstance. The partition (1) of this **MethodInstance** MUST be the partition (1) of the protocol client.

### 3.1.4.71.3 Complex Types

None.

### 3.1.4.71.4 Simple Types

None.

### 3.1.4.71.5 Attributes

None.

### 3.1.4.71.6 Groups

None.

### 3.1.4.71.7 Attribute Groups

None.

## 3.1.4.72 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass.

The following is the WSDL port type specification of the **GetMethodInstancesForDataClass** WSDL operation.

```
<wsdl:operation name="GetMethodInstancesForDataClass"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_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/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata">Microsoft.SharePoint.BusinessData</a> )	The specified <b>DataClass</b> does not exist. <a href="#">&lt;95&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_GetMethodInstancesForDataClasses_InputMessage</b>	The request WSDL message for the <b>GetMethodInstancesForDataClass</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodInstancesForDataClasses_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstancesForDataClass</b> WSDL operation.

### 3.1.4.72.1.1

#### **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage**

The request WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass
```

The SOAP body contains the **GetMethodInstancesForDataClass** element.

### 3.1.4.72.1.2

#### **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage**

The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

The SOAP body contains the **GetMethodInstancesForDataClassResponse** element.

### 3.1.4.72.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.72.2.1 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass** WSDL operation.

```
<xs:element name="GetMethodInstancesForDataClass"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.72.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetMethodInstancesForDataClassResult" nillable="true"
        type="tns6:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodInstancesForDataClassResult:** The list of MethodInstances. The partition (1) of these **MethodInstances** MUST be the partition (1) of the protocol client.

### 3.1.4.72.3 Complex Types

None.

### 3.1.4.72.4 Simple Types

None.

### 3.1.4.72.5 Attributes

None.

### 3.1.4.72.6 Groups

None.

### 3.1.4.72.7 Attribute Groups

None.

### 3.1.4.73 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** operation retrieves the MethodInstances contained by the specified Method.

The following is the WSDL port type specification of the **GetMethodInstancesForMethod** WSDL operation.

```
<wsdl:operation name="GetMethodInstancesForMethod"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForMethod"
    message="tns7: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="tns7: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/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_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/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_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/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Method</b> does not exist. <96>

### 3.1.4.73.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.73.1.1

##### **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage**

The request WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod>

The SOAP body contains the **GetMethodInstancesForMethod** element.

#### 3.1.4.73.1.2

##### **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage**

The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP body contains the **GetMethodInstancesForMethodResponse** element.

### 3.1.4.73.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.



### 3.1.4.73.2.1 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.73.2.2 GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="tns6:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodInstancesForMethodResult:** The list of MethodInstances. The partition (1) of each of these **MethodInstances** MUST be the partition (1) of the protocol client.

### 3.1.4.73.3 Complex Types

None.

### 3.1.4.73.4 Simple Types

None.

### 3.1.4.73.5 Attributes

None.

### 3.1.4.73.6 Groups

None.

### 3.1.4.73.7 Attribute Groups

None.

### 3.1.4.74 GetMethodsForDataClass

The **GetMethodsForDataClass** operation retrieves the Methods contained by the specified DataClass.

The following is the WSDL port type specification of the **GetMethodsForDataClass** WSDL operation.

```
<wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass"
    message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse"
    message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7: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/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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="tns7: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="tns7: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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").<97>
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/15/SharePointBusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/15/SharePointBusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>DataClass</b> does not exist.<98>

### 3.1.4.74.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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 for the <b>GetMethodsForDataClass</b> WSDL operation.

#### 3.1.4.74.1.1

### **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage**

The request WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass
```

The SOAP body contains the **GetMethodsForDataClass** element.

#### 3.1.4.74.1.2

### **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage**

The response WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP body contains the **GetMethodsForDataClassResponse** element.

### 3.1.4.74.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.74.2.1 GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.74.2.2 GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="tns6:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodsForDataClassResult:** The list of Methods. The partition (1) of these **Methods** MUST be the partition (1) of the protocol client.

### 3.1.4.74.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfMethodStruct</b>	Contains a list of Methods.

### 3.1.4.74.3.1 ArrayOfMethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of Methods.

```
<xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
      type="tns6:MethodStruct"/>
  </xs:sequence>
</xs:complexType>
```

**MethodStruct:** This element contains information about a **Method**.

### 3.1.4.74.4 Simple Types

None.

### 3.1.4.74.5 Attributes

None.

### 3.1.4.74.6 Groups

None.

### 3.1.4.74.7 Attribute Groups

None.

### 3.1.4.75 GetModelById

The **GetModelById** operation retrieves the Model with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetModelById** WSDL operation.

```
<wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
    message="tns7: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="tns7: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/GetModelByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"/>
</wsdl:operation>
```

```

message="tns7:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeException_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="tns7:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_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="tns7: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/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_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 faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	A <b>Model</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.75.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.75.1.1 BusinessDataCatalogSharedService\_GetModelById\_InputMessage

The request WSDL message for the **GetModelById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById
```

The SOAP body contains the **GetModelById** element.

### 3.1.4.75.1.2 BusinessDataCatalogSharedService\_GetModelById\_OutputMessage

The response WSDL message for the **GetModelById** WSDL operation.

The SOAP body contains the **GetModelByIdResponse** element.

### 3.1.4.75.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.75.2.1 GetModelById

The **GetModelById** element specifies the input data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelId:** The MetadataObjectId of the Model.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.75.2.2 GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="tns6:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelByIdResult:** The Model. The partition (1) of this **Model** MUST be the partition (1) of the protocol client.

### 3.1.4.75.3 Complex Types

None.

### 3.1.4.75.4 Simple Types

None.

### 3.1.4.75.5 Attributes

None.

### 3.1.4.75.6 Groups

None.

### 3.1.4.75.7 Attribute Groups

None.

### 3.1.4.76 GetModelByName

The **GetModelByName** operation retrieves the specified Model.

The following is the WSDL port type specification of the **GetModelByName** WSDL operation.

```
<wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```



```

edService/GetModelByName"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_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/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_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/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_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/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7: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/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_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/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified name exceeds 255 characters.
<a href="http://schemas.microsoft.com/sharepoint/businessdata">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Model</b> does not exist.

### 3.1.4.76.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.76.1.1

##### **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage**

The request WSDL message for the **GetModelByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName
```

The SOAP body contains the **GetModelByName** element.

#### 3.1.4.76.1.2

##### **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage**

The response WSDL message for the **GetModelByName** WSDL operation.

The SOAP body contains the **GetModelByNameResponse** element.

### 3.1.4.76.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.76.2.1 GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName** WSDL operation.

```
<xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**name:** The name of the Model.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.76.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="tns6:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetModelByNameResult:** The Model. The partition (1) of this **Model** MUST be the partition (1) of the protocol client.

### 3.1.4.76.3 Complex Types

None.

### 3.1.4.76.4 Simple Types

None.

### 3.1.4.76.5 Attributes

None.

### 3.1.4.76.6 Groups

None.

### 3.1.4.76.7 Attribute Groups

None.

### 3.1.4.77 GetModelsByEntityId

The **GetModelsByEntityId** operation retrieves the Models that reference the specified Entity.

The following is the WSDL port type specification of the **GetModelsByEntityId** WSDL operation.

```

<wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFaul
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/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero ("0").

Error complex type	Condition
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Entity</b> does not exist.<99>

### 3.1.4.77.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.77.1.1

##### **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage**

The request WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId
```

The SOAP body contains the **GetModelsByEntityId** element.

#### 3.1.4.77.1.2

##### **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage**

The response WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP body contains the **GetModelsByEntityIdResponse** element.

### 3.1.4.77.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.77.2.1 GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId** WSDL operation.

```
<xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.77.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="tns6:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelsByEntityIdResult:** The list of Models. The partition (1) of these **Models** MUST be the partition (1) of the protocol client.

### 3.1.4.77.3 Complex Types

None.

### 3.1.4.77.4 Simple Types

None.

### 3.1.4.77.5 Attributes

None.

### 3.1.4.77.6 Groups

None.

### 3.1.4.77.7 Attribute Groups

None.

### 3.1.4.78 GetModelsByName

The **GetModelsByName** operation retrieves the Models that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if any of the following conditions is true:

- **WildcardedName** matches the name of the **Model**.
- **WildcardedName** matches the localized name of the **Model** and the model's localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid.

The following is the WSDL port type specification of the **GetModelsByName** WSDL operation.

```
<wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7: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/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a

**BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid.

### 3.1.4.78.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.78.1.1

### **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage**

The request WSDL message for the **GetModelsByName** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName>

The SOAP body contains the **GetModelsByName** element.

#### 3.1.4.78.1.2

### **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage**

The response WSDL message for the **GetModelsByName** WSDL operation.

The SOAP body contains the **GetModelsByNameResponse** element.



### 3.1.4.78.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.78.2.1 GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName** WSDL operation.

```
<xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**wildcardedName:** The wildcard pattern to be used to retrieve the Models whose name or localized name matches the wildcard pattern. The following code example shows the ABNF for the **wildcardedName**.

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the name or localized name of the **Models** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**callerCultureLcid:** The language code identifier (LCID) representing the locale to be used when retrieving the **Models**.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.78.2.2 GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName** WSDL operation.

```
<xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="tns6:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelsByNameResult:** The list of Models. The partition (1) of these **Models** MUST be the partition (1) of the protocol client.

### 3.1.4.78.3 Complex Types

None.

### 3.1.4.78.4 Simple Types

None.

### 3.1.4.78.5 Attributes

None.

### 3.1.4.78.6 Groups

None.

### 3.1.4.78.7 Attribute Groups

None.

### 3.1.4.79 GetParameterById

The **GetParameterById** operation retrieves the Parameter with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetParameterById** WSDL operation.

```
<wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns7: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="tns7: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/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData/Microsoft.SharePoint.BusinessData.MetadataObjectNotFoundExceptionState">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	A <b>Parameter</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is set to "true".

### 3.1.4.79.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.79.1.1

#### **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage**

The request WSDL message for the **GetParameterById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById
```

The SOAP body contains the **GetParameterById** element.

### 3.1.4.79.1.2

#### **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage**

The response WSDL message for the **GetParameterById** WSDL operation.

The SOAP body contains the **GetParameterByIdResponse** element.

### 3.1.4.79.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.79.2.1 GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById** WSDL operation.

```
<xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**parameterId:** The MetadataObjectId of the Parameter.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.79.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="tns6:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetParameterByIdResult:** The Parameter. The partition (1) of this **Parameter** MUST be the partition (1) of the protocol client.

### 3.1.4.79.3 Complex Types

None.

### 3.1.4.79.4 Simple Types

None.

### 3.1.4.79.5 Attributes

None.

### 3.1.4.79.6 Groups

None.

### 3.1.4.79.7 Attribute Groups

None.

### 3.1.4.80 GetParametersForMethod

The **GetParametersForMethod** operation retrieves the Parameters of the specified Method.

The following is the WSDL port type specification of the **GetParametersForMethod** WSDL operation.

```
<wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod"
    message="tns7: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="tns7: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/GetParametersForMethodArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_FaultMessage"
    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="tns7: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="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").<100>
<a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/01/ExceptionState">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/sharepoint/businessdata/2009/07/01/ExceptionState">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Method</b> does not exist.<101>

### 3.1.4.80.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.80.1.1

#### **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage**

The request WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod
```

The SOAP body contains the **GetParametersForMethod** element.

#### 3.1.4.80.1.2

#### **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage**

The response WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP body contains the **GetParametersForMethodResponse** element.

### 3.1.4.80.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetParametersForMethod</b>	The input data for the <b>GetParametersForMethod</b> WSDL operation.

Element	Description
<b>GetParametersForMethodResponse</b>	The result data for the <b>GetParametersForMethod</b> WSDL operation.

### 3.1.4.80.2.1 GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.80.2.2 GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="tns6:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetParametersForMethodResult:** The list of Parameters. The partition (1) of these Parameters MUST be the partition (1) of the protocol client.

### 3.1.4.80.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfParameterStruct</b>	Contains a list of Parameters.

### 3.1.4.80.3.1 ArrayOfParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData



The **ArrayOfParameterStruct** complex type contains a list of Parameters.

```
<xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="tns6:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

**ParameterStruct: A Parameter.**

#### 3.1.4.80.4 Simple Types

None.

#### 3.1.4.80.5 Attributes

None.

#### 3.1.4.80.6 Groups

None.

#### 3.1.4.80.7 Attribute Groups

None.

#### 3.1.4.81 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** operation retrieves the root TypeDescriptor of the specified Parameter.

The following is the WSDL port type specification of the **GetRootTypeDescriptorForParameter** WSDL operation.

```
<wsdl:operation name="GetRootTypeDescriptorForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_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/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified MetadataObjectId is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Parameter</b> does not exist.

### 3.1.4.81.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage</b>	The request WSDL message for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage</b>	The response WSDL message for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.

### 3.1.4.81.1.1

#### **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_Input Message**

The request WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter
```

The SOAP body contains the **GetRootTypeDescriptorForParameter** element.

### 3.1.4.81.1.2

#### **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage**

The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP body contains the **GetRootTypeDescriptorForParameterResponse** element.

### 3.1.4.81.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.81.2.1 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```
<xs:element name="GetRootTypeDescriptorForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
    </xs: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>

```

**parameterId:** The MetadataObjectId of the Parameter.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.81.2.2 GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```

<xs:element name="GetRootTypeDescriptorForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetRootTypeDescriptorForParameterResult:** The root TypeDescriptor of the Parameter. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.81.3 Complex Types

None.

### 3.1.4.81.4 Simple Types

None.

### 3.1.4.81.5 Attributes

None.

### 3.1.4.81.6 Groups

None.

### 3.1.4.81.7 Attribute Groups

None.

### 3.1.4.82 GetServiceApplicationId

The **GetServiceApplicationId** operation retrieves the unique implementation-specific identifier of a metadata store.

The following is the WSDL port type specification of the **GetServiceApplicationId** WSDL operation.

```
<wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** response message, unless any faults occur.

### 3.1.4.82.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.82.1.1

##### **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage**

The request WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId
```

The SOAP body contains the **GetServiceApplicationId** element.

#### 3.1.4.82.1.2

##### **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage**

The response WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP body contains the **GetServiceApplicationIdResponse** element.

### 3.1.4.82.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.82.2.1 GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId** WSDL operation.

```
<xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.82.2.2 GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId** WSDL operation.

```
<xs:element name="GetServiceApplicationIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetServiceApplicationIdResult:** The unique implementation-specific identifier of a metadata store. The value of the identifier MUST be a GUID.

#### 3.1.4.82.3 Complex Types

None.

#### 3.1.4.82.4 Simple Types

None.

### 3.1.4.82.5 Attributes

None.

### 3.1.4.82.6 Groups

None.

### 3.1.4.82.7 Attribute Groups

None.

### 3.1.4.83 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** operation retrieves the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.

The following is the WSDL port type specification of the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataExceptionStateFault_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="tns7: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/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:operation>
```

```

name="BdcExceptionStateFault"
message="tns7: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/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeExcepcion (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId is set to zero "0".
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> has an invalid value for the <b>Property</b> named <b>SystemUtilityTypeName</b> . Validity of this <b>Property</b> is specified in section 3.1.4.83.2.2.

### 3.1.4.83.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.83.1.1

### **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage**

The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP action value is:



The SOAP body contains the **GetSystemUtilityTypeNameForLobSystem** element.

### 3.1.4.83.1.2

#### **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage**

The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP body contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

### 3.1.4.83.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.83.2.1 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem.

#### 3.1.4.83.2.2 GetSystemUtilityTypeNameForLobSystemResponse

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
        nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetSystemUtilityTypeNameForLobSystemResult:** The implementation-specific [102](#) identifier of the module that runs operations in the line-of-business (LOB) system.

### 3.1.4.83.3 Complex Types

None.

### 3.1.4.83.4 Simple Types

None.

### 3.1.4.83.5 Attributes

None.

### 3.1.4.83.6 Groups

None.

### 3.1.4.83.7 Attribute Groups

None.

### 3.1.4.84 GetThrottlingRules

The **GetThrottlingRules** operation retrieves all throttle configuration settings used by the protocol server.

The following is the WSDL port type specification of the **GetThrottlingRules** WSDL operation.

```

<wsdl:operation name="GetThrottlingRules" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules"
    message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesResponse"
    message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage** response message, unless any faults occur.

### 3.1.4.84.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage</b>	The request WSDL message for the <b>GetThrottlingRules</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage</b>	The response WSDL message for the <b>GetThrottlingRules</b> WSDL operation.

#### 3.1.4.84.1.1

### **BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage**

The request WSDL message for the **GetThrottlingRules** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules

```

The SOAP body contains the **GetThrottlingRules** element.

#### 3.1.4.84.1.2

### **BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage**

The response WSDL message for the **GetThrottlingRules** WSDL operation.

The SOAP body contains the **GetThrottlingRulesResponse** element.

### 3.1.4.84.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetThrottlingRules</b>	The input data for the <b>GetThrottlingRules</b> WSDL operation.
<b>GetThrottlingRulesResponse</b>	The result data for the <b>GetThrottlingRules</b> WSDL operation.

#### 3.1.4.84.2.1 GetThrottlingRules

The **GetThrottlingRules** element specifies the input data for the **GetThrottlingRules** WSDL operation.

```
<xs:element name="GetThrottlingRules" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.84.2.2 GetThrottlingRulesResponse

The **GetThrottlingRulesResponse** element specifies the result data for the **GetThrottlingRules** WSDL operation.

```
<xs:element name="GetThrottlingRulesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetThrottlingRulesResult" nillable="true" type="tns6:ArrayOfSafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetThrottlingRulesResult:** The list of throttle configuration settings.

### 3.1.4.84.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfSafetyNetStruct</b>	Contains a list of throttle configuration settings.

#### 3.1.4.84.3.1 ArrayOfSafetyNetStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfSafetyNetStruct** complex type contains a list of throttle configuration settings.

```

<xs:complexType name="ArrayOfSafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true"
type="tns6:SafetyNetStruct"/>
  </xs:sequence>
</xs:complexType>

```

**SafetyNetStruct:** A throttle configuration setting.

#### 3.1.4.84.4 Simple Types

None.

#### 3.1.4.84.5 Attributes

None.

#### 3.1.4.84.6 Groups

None.

#### 3.1.4.84.7 Attribute Groups

None.

#### 3.1.4.85 GetTypeDescriptorById

The **GetTypeDescriptorById** operation retrieves the TypeDescriptor with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetTypeDescriptorById** WSDL operation.

```

<wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns7: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/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding server error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The specified <b>MetadataObjectId</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	A <b>TypeDescriptor</b> with the specified <b>MetadataObjectId</b> does not exist in the partition (1) of the protocol client, and the value of the <b>performErrorCheck</b> element is "true".

### 3.1.4.85.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.85.1.1

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage**

The request WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById
```

The SOAP body contains the **GetTypeDescriptorById** element.

### 3.1.4.85.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP body contains the **GetTypeDescriptorByIdResponse** element.

### 3.1.4.85.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.85.2.1 GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById** WSDL operation.

```
<xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorId:** The MetadataObjectId of the TypeDescriptor.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.85.2.2 GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById** WSDL operation.

```
<xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetTypeDescriptorByIdResult:** The TypeDescriptor. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.85.3 Complex Types

None.

### 3.1.4.85.4 Simple Types

None.

### 3.1.4.85.5 Attributes

None.

### 3.1.4.85.6 Groups

None.

### 3.1.4.85.7 Attribute Groups

None.

### 3.1.4.86 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** operation SHOULD [<103>](#) retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:

- The level of the root **TypeDescriptor** is set to zero ("0").
- The level of the specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the WSDL port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```



```

edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns7: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="tns7: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/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_M
etadataExceptionStateFault_FaultMessage"
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="tns7: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="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
<a href="#">ArgumentOutOfRangeException (from namespace)</a>	The specified

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	MetadataObjectId is set to zero ("0"), or the specified level is less than zero.
<b>BdcExceptionState</b> (from namespace <a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a> )	Either the <b>Parameter</b> with the specified <b>MetadataObjectId</b> or the specified name of the <b>TypeDescriptor</b> does not exist.

### 3.1.4.86.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.86.1.1

#### **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.

#### 3.1.4.86.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

### 3.1.4.86.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.86.2.1 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="level" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** The name of the TypeDescriptors that are retrieved.

**parameterId:** The MetadataObjectId of the Parameter.

**level:** The level of the **TypeDescriptors** that are retrieved.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.86.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="tns6:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetTypeDescriptorsByNameAndLevelForParameterResult:** The list of TypeDescriptors. The partition (1) of each of these **TypeDescriptors** MUST be the partition (1) of the protocol client.

### 3.1.4.86.3 Complex Types

None.

### 3.1.4.86.4 Simple Types

None.

### 3.1.4.86.5 Attributes

None.

### 3.1.4.86.6 Groups

None.

### 3.1.4.86.7 Attribute Groups

None.

### 3.1.4.87 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** operation retrieves TypeDescriptors referenced by the specified FilterDescriptor.

The following is the WSDL port type specification of the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetTypeDescriptorsForFilterDescriptor"
    message="tns7: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="tns7: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/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Metadata
    ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
OutOfRangeExceptionHandler_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionHandler"
name="BdcExceptionHandler"
message="tns7: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/GetTypeDescriptorsForFilterDescriptorInvalidOperationException"
name="InvalidOperationException"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidO
perationExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionHandler"
name="ArgumentExceptionHandler"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
ExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionHandler"
name="ArgumentNullExceptionHandler"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
NullExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified MetadataObjectId of the <b>FilterDescriptor</b> is set to zero ("0").

### 3.1.4.87.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.

Message	Description
	<b>Descriptor</b> WSDL operation.

### 3.1.4.87.1.1

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage**

The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor
```

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptor** element.

### 3.1.4.87.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

### 3.1.4.87.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.87.2.1 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**filterDescriptorId:** The MetadataObjectId of the FilterDescriptor.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.87.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
        type="tns6:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetTypeDescriptorsForFilterDescriptorResult:** The list of TypeDescriptors that are referenced by the specified FilterDescriptor. The partition (1) of these **TypeDescriptors** MUST be the partition (1) of the protocol client.

### 3.1.4.87.3 Complex Types

None.

### 3.1.4.87.4 Simple Types

None.

### 3.1.4.87.5 Attributes

None.

### 3.1.4.87.6 Groups

None.

### 3.1.4.87.7 Attribute Groups

None.

### 3.1.4.88 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** operation retrieves the implementation-specific name of the type of the TypeReflector of the specified Parameter.

The following is the WSDL port type specification of the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```

<wsdl:operation name="GetTypeReflectorTypeNameForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterResponse"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOp
erationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataE
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/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).



Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the specified <b>Parameter</b> is set to zero ("0").

### 3.1.4.88.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.88.1.1

#### **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage**

The request WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter
```

The SOAP body contains the **GetTypeReflectorTypeNameForParameter** element.

#### 3.1.4.88.1.2

#### **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage**

The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP body contains the **GetTypeReflectorTypeNameForParameterResponse** element.

### 3.1.4.88.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetTypeReflectorTypeNameForParameter</b>	The input data for the <b>GetTypeReflectorTypeNameForParameter</b>

Element	Description
	WSDL operation.
<b>GetTypeReflectorTypeNameForParameterResponse</b>	The result data for the <b>GetTypeReflectorTypeNameForParameter</b> WSDL operation.

### 3.1.4.88.2.1 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameterStruct:** The Parameter whose name is to be retrieved by the TypeReflector. The partition (1) of this **Parameter** MUST be the partition (1) of the protocol client.

### 3.1.4.88.2.2 GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetTypeReflectorTypeNameForParameterResult:** The implementation-specific name of the type of the TypeReflector of the specified Parameter.

### 3.1.4.88.3 Complex Types

None.

### 3.1.4.88.4 Simple Types

None.

### 3.1.4.88.5 Attributes

None.

### 3.1.4.88.6 Groups

None.

### 3.1.4.88.7 Attribute Groups

None.

### 3.1.4.89 GetXmlSchemaForView

The **GetXmlSchemaForView** operation is obsolete and MUST NOT be used.

The following is the WSDL port type specification of the **GetXmlSchemaForView** WSDL operation.

```
<wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

### 3.1.4.89.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.89.1.1

##### **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage**

The request WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView
```

The SOAP body contains the **GetXmlSchemaForView** element.

#### 3.1.4.89.1.2

##### **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage**

The response WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP body contains the **GetXmlSchemaForViewResponse** element.

### 3.1.4.89.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.89.2.1 GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView** WSDL operation.

```
<xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="tns6:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**methodInstanceStruct:** The MethodInstance.

### 3.1.4.89.2.2 GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView** WSDL operation.

```

<xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetXmlSchemaForViewResult:** A string that contains the resulting XML schema. The XML schema MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The XML namespace specified by the XML schema is implementation-specific. The XML schema MUST specify the root element that corresponds to the View. The name of the root element MUST be equal to the name of the View. The root element MUST contain exactly one XML element for each of the fields (4) in the View. The XML element is declared based on the TypeDescriptors that correspond to fields (4).

### 3.1.4.89.3 Complex Types

None.

### 3.1.4.89.4 Simple Types

None.

### 3.1.4.89.5 Attributes

None.

### 3.1.4.89.6 Groups

None.

### 3.1.4.89.7 Attribute Groups

None.

### 3.1.4.90 HaveRights

The **HaveRights** operation retrieves whether the security principal (1) 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="tns7: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="tns7: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/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="#">ArgumentOutOfRangeException (from namespace</a>	The MetadataObjectId of the

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	specified <b>MetadataObject</b> is set to zero ("0").
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.90.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.90.1.1 BusinessDataCatalogSharedService\_HaveRights\_InputMessage

The request WSDL message for the **HaveRights** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights
```

The SOAP body contains the **HaveRights** element.

#### 3.1.4.90.1.2 BusinessDataCatalogSharedService\_HaveRights\_OutputMessage

The response WSDL message for the **HaveRights** WSDL operation.

The SOAP body contains the **HaveRightsResponse** element.

### 3.1.4.90.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.90.2.1 HaveRights

The **HaveRights** element specifies the input data for the **HaveRights** WSDL operation.

```

<xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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 the partition (1) of the protocol client.

**rights:** The permission to check.

**fallBack:** When the value of this element is "true", the protocol server MUST use the ACEs in the default **Setting** for the specified **MetadataObject** if there are no ACEs exist in the specified Setting for the specified **MetadataObject**.

**settingId:** The Setting that contains the ACEs. If the value of this element is NULL, the protocol server MUST use the ACEs contained by the default Setting.

### 3.1.4.90.2 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 (1) in whose context the protocol client is operating has the specified permissions, this value MUST be set to "true". Otherwise, this value MUST be set to "false".

### 3.1.4.90.3 Complex Types

None.

### 3.1.4.90.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>BdcRights</b>	Specifies the permission given a security principal (1) on a MetadataObject.



### 3.1.4.90.4.1 BdcRights

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given security principal (1) 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 (1) has the permission to invoke a <b>MethodInstance</b> .
Edit	The security principal (1) has permission to change the attributes of a <b>MetadataObject</b> or its relationship to other <b>MetadataObjects</b> .
SetPermissions	The security principal (1) has permission to change the set of permissions for a <b>MetadataObject</b> .
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal (1) 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 (1) does not have this permission, the <b>MetadataObject</b> SHOULD NOT be presented in such a list.

### 3.1.4.90.5 Attributes

None.

### 3.1.4.90.6 Groups

None.

### 3.1.4.90.7 Attribute Groups

None.



```

edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.
- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified partition (1).
- The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition (1).
- The security principal (1) in whose context the protocol client is operating is not authorized to create or modify the specified **Model**.
- The **security principal (1)** in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
- The "Model" value is not specified for the **packageContents** element, and at least one of the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the **LobSystems** contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.

- The "Model" value is specified for the **packageContents** element, and one of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated Business Logic Module.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type **TimeStampFilter**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  - AccessChecker
  - AssociationNavigator
  - Associator
  - BinarySecurityDescriptorAccessor
  - BulkAssociatedIdEnumerator
  - BulkAssociationNavigator
  - BulkIdEnumerator
  - BulkSpecificFinder
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Deleter
  - Disassociator
  - SpecificFinder
  - Updater
  - StreamAccessor

- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator

### 3.1.4.91.1 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.

#### 3.1.4.91.1.1 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.

#### 3.1.4.91.1.2 BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage

The response WSDL message for the **ImportPackage** WSDL operation.

The SOAP body contains the **ImportPackageResponse** element.

### 3.1.4.91.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.91.2.1 ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns6:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server **MUST** use the following rules:

- If the "Model" value is specified, this operation **MUST** create **MetadataObjects** in the metadata store. The protocol server **MUST** set all **Entities** contained by the specified **MetadataModel** to active. If any of the **Entities** contain reference errors as specified in section [3.1.4.5.3.2](#), the protocol server **MUST NOT** set any **Entity** contained by the specified **MetadataModel** as active.
- If the "Model" value is not specified, the protocol server **MUST NOT** create any **MetadataObjects**.
- If the "Properties" value is specified, the protocol server **MUST** create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified Setting for the **MetadataObject**, the **Property** in the metadata store **MUST** be replaced.
- If the "Properties" value is not specified, the protocol server **MUST** ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server **MUST** create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store **MUST** be replaced.
- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server **MUST** delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server **MUST** ignore ACEs in the specified **MetadataModel**.

**adminStruct:** The MetadataCatalog that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified MetadataCatalog. The partition (1) of this **MetadataCatalog** MUST be the partition (1) of the protocol client.

**settingId:** The Setting in which to create the **Properties**, localized names, and ACEs.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

### 3.1.4.91.2.2 ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ImportPackageResult:** The Model from the metadata store that corresponds to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

### 3.1.4.91.3 Complex Types

None.

### 3.1.4.91.4 Simple Types

None.

### 3.1.4.91.5 Attributes

None.





```

name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_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/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_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/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_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/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_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/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.
- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the MetadataModel in the specified partition (1).

- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and another **Model** with the same name already exists in the metadata store.
- The security principal (1) in whose context the protocol client is operating is not authorized to create or modify the specified Model.
- The **security principal (1)** in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
- The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition (1).
- The "Model" value is not specified for the **packageContents** element, and at least one of the MetadataObjects contained by the **MetadataModel** does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the LobSystems contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the Entities contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated Business Logic Module.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a Method that contains more than one FilterDescriptor of type TimestampFilter.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnPropertyDescriptor** of this MethodInstance contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  - AccessChecker
  - AssociationNavigator
  - Associator
  - BinarySecurityDescriptorAccessor

- BulkAssociatedIdEnumerator
- BulkAssociationNavigator
- BulkIdEnumerator
- BulkSpecificFinder
- ChangedIdEnumerator
- DeletedIdEnumerator
- Deleter
- Disassociator
- SpecificFinder
- Updater
- StreamAccessor
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator

### 3.1.4.92.1 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.

#### 3.1.4.92.1.1

### **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.

### 3.1.4.92.1.2

#### **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage**

The response WSDL message for the **ImportPackageWithProgress** WSDL operation.

The SOAP body contains the **ImportPackageWithProgressResponse** element.

### 3.1.4.92.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.92.2.1 ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress** WSDL operation.

```
<xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns6:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the metadata store. The protocol server MUST set all **Entities** contained by the specified **MetadataModel** to active. If any of the **Entities** contain reference errors as specified in section [3.1.4.5.3.2](#), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.

- If the "Model" value is not specified, the protocol server MUST NOT create any **MetadataObjects**.
- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified Setting for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**adminStruct:** The MetadataCatalog that contains the Model contained by the MetadataModel. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**. The partition (1) of this **MetadataCatalog** MUST be the partition (1) of the protocol client.

**settingId:** The **Setting** in which to create the **Properties**, localized names, and ACEs.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

**jobId:** Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

### 3.1.4.92.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="tns6:ModelStruct"/>
    <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**ImportPackageWithProgressResult:** The Model from the metadata store that corresponds to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

### 3.1.4.92.3 Complex Types

None.

### 3.1.4.92.4 Simple Types

None.

### 3.1.4.92.5 Attributes

None.

### 3.1.4.92.6 Groups

None.

### 3.1.4.92.7 Attribute Groups

None.

### 3.1.4.93 IsMethodInstantiated

The **IsMethodInstantiated** operation checks whether the specified Method contains at least one MethodInstance.

The following is the WSDL port type specification of the **IsMethodInstantiated** WSDL operation.

```

<wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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="tns7: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, unless any faults occur.

### 3.1.4.93.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.93.1.1

### **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage**

The request WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated
```

The SOAP body contains the **IsMethodInstantiated** element.

### 3.1.4.93.1.2

#### **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage**

The response WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP body contains the **IsMethodInstantiatedResponse** element.

### 3.1.4.93.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.93.2.1 IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated** WSDL operation.

```
<xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId for the Method.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.93.2.2 IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated** WSDL operation.

```
<xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```
</xs:complexType>
</xs:element>
```

**IsMethodInstantiatedResult:** This element MUST be set to "true", if the **Method** contains at least one MethodInstance. Otherwise, it MUST be set to "false".

### 3.1.4.93.3 Complex Types

None.

### 3.1.4.93.4 Simple Types

None.

### 3.1.4.93.5 Attributes

None.

### 3.1.4.93.6 Groups

None.

### 3.1.4.93.7 Attribute Groups

None.

### 3.1.4.94 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified Parameter contains any TypeDescriptor that is the ReturnTypeDescriptor of any MethodInstance contained by the Method containing the **Parameter**.

The following is the WSDL port type specification of the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<wsdl:operation name="IsParameterReferencedByMethodInstance"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceResponse"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```

```

message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Metadata
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException</a> (from namespace <a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a> )	The MetadataObjectId of the specified <b>Parameter</b> is set to zero ("0").
<a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">MetadataObjectNotFoundExceptionState</a> (from namespace <a href="http://schemas.microsoft.com/SharePoint/2009/BusinessData">Microsoft.SharePoint.BusinessData</a> )	The specified <b>Parameter</b> does not exist.

### 3.1.4.94.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage</b>	The request WSDL message for the <b>IsParameterReferencedByMe</b>

Message	Description
	<b>thodInstance</b> WSDL operation.
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage</b>	The response WSDL message for the <b>IsParameterReferencedByMethodInstance</b> WSDL operation.

### 3.1.4.94.1.1

#### **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage**

The request WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance
```

The SOAP body contains the **IsParameterReferencedByMethodInstance** element.

### 3.1.4.94.1.2

#### **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage**

The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP body contains the **IsParameterReferencedByMethodInstanceResponse** element.

### 3.1.4.94.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.94.2.1 **IsParameterReferencedByMethodInstance**

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<xs:element name="IsParameterReferencedByMethodInstance"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**parameterId:** The MetadataObjectId for the Parameter.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.94.2.2 IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```

<xs:element name="IsParameterReferencedByMethodInstanceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**IsParameterReferencedByMethodInstanceResult:** If this element is set to "true", the specified Parameter contains a ReturnPropertyDescriptor. If set to "false", the specified **Parameter** SHOULD NOT contain a **ReturnPropertyDescriptor** [<104>](#).

### 3.1.4.94.3 Complex Types

None.

### 3.1.4.94.4 Simple Types

None.

### 3.1.4.94.5 Attributes

None.

### 3.1.4.94.6 Groups

None.

### 3.1.4.94.7 Attribute Groups

None.

### 3.1.4.95 MetadataObjectCreate

The **MetadataObjectCreate** operation creates a **MetadataObject** in the metadata store. If the specified **MetadataObject** is a **MetadataCatalog** and another **MetadataCatalog** with the same partition (1) as the specified **MetadataCatalog** already exists, this operation MUST NOT change the state of the data in the metadata store [<105>](#).

The following is the WSDL port type specification of the **MetadataObjectCreate** WSDL operation.

```
<wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
    message="tns7: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="tns7: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/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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/MetadataObjectCreateMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_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="tns7: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/MetadataObjectCreateArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataExceptionState** error if the MetadataObject specified in the **rawValues** element is an Association with the methodInstanceType not set to the following values:

- AssociationNavigator
- Associator
- Disassociator
- BulkAssociationNavigator
- BulkAssociatedIdEnumerator

This operation raises the **ArgumentNullException** error, from namespace <http://schemas.datacontract.org/2004/07/System>, under the following conditions:

- The **parentStruct** element is not set to the structure that is expected by this operation.
- The **parentStruct** element is set to null.
- The **rawValues** element specifies an **association** and any one of the elements **destinationEntityName**, **destinationEntityNamespace**, **sourceEntityNames** and **sourceEntityNamespaces** in the **Association** is null or not present in the request.

This operation raises an [AccessDeniedExceptionState](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error, from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>, under the following conditions:

- The **rawValues** element specifies a LobSystem, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element.
- The **rawValues** element specifies a LobSystemInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **rawValues** element specifies an Identifier, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies an Action, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies an ActionParameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
- The **rawValues** element specifies a **Method**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.

- The **rawValues** element specifies an AssociationGroup, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies a MethodInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies a Parameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies a FilterDescriptor, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies an Association, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Method** specified by the **parentStruct** element.

This operation raises the [ArgumentException](#) error, from namespace <http://schemas.datacontract.org/2004/07/System>, under the following conditions:

- The **rawValues** element specifies a **MetadataObject** with invalid attributes.
- The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnPropertyDescriptor** that is not contained by any parameters that are contained by the method specified by the **parentStruct** element.
- The **rawValues** element specifies an **Identifier** with the **typeName** element set to null or empty.
- The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnPropertyDescriptor** that is contained by a parameter with the **Direction** attribute set to "In".
- The **rawValues** element specifies a **MethodInstance** that does not specify a **ReturnPropertyDescriptor**, and the type of the specified **MethodInstance** is one of the following values:
  - AccessChecker
  - AssociationNavigator
  - BulkAssociatedIdEnumerator
  - BulkAssociationNavigator
  - BulkIdEnumerator
  - BulkSpecificFinder
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Finder
  - IdEnumerator

- Scalar
- SpecificFinder
- StreamAccessor
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** without the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
  - BulkAssociationNavigator
  - BulkIdEnumerator
  - BulkSpecificFinder
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Finder
  - IdEnumerator
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
  - AccessChecker
  - Creator
  - Scalar
  - SpecificFinder
  - StreamAccessor
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with the **None** value set in the **flags** element, and the type of the specified **MethodInstance** is "StreamAccessor".
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** that contains other TypeDescriptors, and the specified **MethodInstance** is a StreamAccessor.
- The **rawValues** element specifies a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** of the **MethodInstance** also contains other **TypeDescriptors**, and the LobSystem that contains the DataClass that contains the **Method** that contains the **MethodInstance** does not allow this configuration, and the specified **MethodInstance** is a **StreamAccessor**.
- The **rawValues** element specifies a **MethodInstance**, the **Method** specified by the **parentStruct** element does not contain a TimeStampFilter, and the type of the specified **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator



- The **rawValues** element specifies a **MethodInstance** that requires an input, but the **Method** specified by **parentStruct** does not contain any parameters with the **Direction** attribute set to "In" or "InOut".
- The **rawValues** element specifies a **FilterDescriptor** of type **TimeStampFilter**, but the **Method** specified by the **parentStruct** already contains a **TimeStampFilter**.
- The **rawValues** element specifies a parameter with the **Direction** attribute set to "Return", but the **Method** specified by **parentStruct** already contains a parameter with the **Direction** attribute set to "Return".
- The **rawValues** element specifies an **Association** and the same **Entity** is specified as a source of the **Association** more than once.
- The **rawValues** element specifies an **Action** with the **position** element set to 0.

This operation raises the **BdcExceptionState** error under the following conditions:

- The **MetadataObject** specified in the **rawValues** element is an **Entity** or a **TypeDescriptor**.
- The **MetadataObject** specified in the **rawValues** element is an **Association**, but the **parentStruct** is not a **Method**.
- The **parentStruct** element is a **MetadataCatalog** that contains an **AccessControlEntry**, and the **principalName** of the **AccessControlEntry** specifies a nonexistent user name or domain group.

This operation raises the [DuplicateMetadataObjectExceptionState error](#), from namespace Microsoft.SharePoint.BusinessData, under the following conditions:

- The **rawValues** element specifies an **LobSystem**, but an **LobSystem** with the same name already exists in the metadata store.
- The **rawValues** element specifies a **MethodInstance**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **MethodInstance** with the same name as the specified **MethodInstance**.
- The **rawValues** element specifies an **Association**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **Method** that contains an **Association** with the same name as the specified **Association**.
- The **MetadataObject** specified by the **parentStruct** element already contains a **MetadataObject** that has same name and type as the **MetadataObject** specified by the **rawValues** element.

This operation raises the [ExceededMetadataObjectLimitExceptionState error](#), from namespace Microsoft.SharePoint.BusinessData) under the following conditions:

- The **MetadataObject** specified by the **parentStruct** element already contains the implementation-specific maximum number of **MetadataObjects** that have the same type as the **MetadataObject** specified by the **rawValues** element.
- The **rawValues** element specifies a **MethodInstance** of type IdEnumerator, AccessChecker, Deleter, ChangedIdEnumerator, DeletedIdEnumerator, or BulkIdEnumerator, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already has a **MethodInstance** of the same type.

This operation raises the [MetadataObjectNotFoundExceptionState error, from namespace Microsoft.SharePoint.BusinessData](#), under the following conditions:

- The **MetadataObject** specified by the **parentStruct** element does not exist in the metadata store.
- The **rawValues** element specifies a **MetadataObject** other than **Association** that references another **MetadataObject** that does not exist in the metadata store.
- The **rawValues** element specifies an **Association** for which the specified **sourceEntityNames** and **sourceEntityNamespaces** each contain only one empty string element.

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions in addition to creating the **MetadataObject** in the metadata store.

MetadataObject	Action
Identifier	Set the <b>OrdinalNumber</b> attribute of the created <b>Identifier</b> to 1 plus the maximum value of the <b>OrdinalNumber</b> attributes of all the <b>Identifiers</b> contained by the <b>Entity</b> specified by the <b>parentStruct</b> element.
Parameter	Set the <b>OrdinalNumber</b> attribute of the created <b>Parameter</b> to 1 plus the maximum value of <b>OrdinalNumber</b> attributes of all the <b>Parameters</b> contained by the <b>Method</b> specified by the <b>parentStruct</b> element.
MethodInstance	Set the <b>IsDefault</b> attributes of all other <b>MethodInstances</b> of type equal to the type of the created <b>MethodInstance</b> in the <b>DataClass</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> element to "false" if the <b>IsDefault</b> attribute is set to "true" for the created <b>MethodInstance</b> . If the <b>IsDefault</b> attribute is set to "false" for 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 "true".
MethodInstance	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> .
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> .

### 3.1.4.95.1 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.

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectCreate</b> WSDL operation.

### 3.1.4.95.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage**

The request WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate
```

The SOAP body contains the **MetadataObjectCreate** element.

### 3.1.4.95.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage**

The response WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP body contains the **MetadataObjectCreateResponse** element.

### 3.1.4.95.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.95.2.1 MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** Specifies the **MetadataObject** to create. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

**parentStruct:** Specifies the **MetadataObject** in which to create the new **MetadataObject**. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

### 3.1.4.95.2.2 MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**MetadataObjectCreateResult:** The created **MetadataObject**. If the **MetadataObject** specified in the request is a **MetadataCatalog** and a **MetadataCatalog** with the same partition (1) as the specified **MetadataCatalog** already exists in the metadata store, this operation MUST return the existing **MetadataCatalog** [<106>](#).

### 3.1.4.95.3 Complex Types

None.

### 3.1.4.95.4 Simple Types

None.

### 3.1.4.95.5 Attributes

None.

### 3.1.4.95.6 Groups

None.

### 3.1.4.95.7 Attribute Groups

None.

### 3.1.4.96 MetadataObjectMergeXml

The **MetadataObjectMergeXml** operation merges the **Properties**, localized names, and ACEs contained by the specified **MetadataModel** into the existing **MetadataObjects** in the metadata store. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- An Action element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.3.

- An ActionParameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.4.
- An Association element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.7.
- An AssociationGroup element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.8.
- An Entity element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.11.
- A FilterDescriptor element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.12.
- An Identifier element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.14.
- A LobSystem element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.17.
- A LobSystemInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.18.
- A Method element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.24.
- A MethodInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.25.
- A Model element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.
- A Parameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.29.

The following is the WSDL port type specification of the **MetadataObjectMergeXml** WSDL operation.

```
<wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml"
    message="tns7: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="tns7: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/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7: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/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7: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/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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"
    message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_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/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptio
nsStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) under the following conditions:

- The "Properties" value is specified in the **packageContents** element, the specified **MetadataModel** contains properties for a **MetadataObject**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.
- The "LocalizedNames" value is specified in the **packageContents** element, the specified **MetadataModel** contains localized names for a **MetadataObject**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.
- The "Permissions" value is specified in the **packageContents** element, the specified **MetadataModel** contains ACEs for a **MetadataObject**, and the security principal (1) in whose context the protocol client is operating is not authorized to set permissions for that **MetadataObject**.

This operation raises the [BdcExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error under the following conditions:

- The **mergedStruct** element specifies a **TypeDescriptor**.
- The specified **MetadataModel** does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified **MetadataModel** contains one or more

**MetadataObjects** that already contain the implementation-specific maximum number of **Properties** and the **packageContents** element has "Properties" as its value.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of localized names, and the **packageContents** element has "LocalizedNames" as its value.
- The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that specifies "SetPermissions" permission, the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  - Association
  - Entity
  - LobSystem
  - Method
  - MethodInstance
  - Model

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata) error under the following conditions:

- One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store.
- The **packageContents** element is set to "Model".

### 3.1.4.96.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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 for the <b>MetadataObjectMergeXml</b> WSDL operation.

#### 3.1.4.96.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage**

The request WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP action value is:

The SOAP body contains the **MetadataObjectMergeXml** element.

### 3.1.4.96.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage**

The response WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP body contains the **MetadataObjectMergeXmlResponse** element.

### 3.1.4.96.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.96.2.1 MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **MetadataObjects** for the specified Setting. During this merge, if a **Property** that has the same name as the **Property** specified by the **MetadataModel** already exists for the



specified **MetadataObject**, the protocol server MUST remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **MetadataObject**, the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.

- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST merge the localized names for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a localized name that has the same LCID and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **MetadataObject**, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **MetadataObject**, the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified and the **MetadataModel** specifies ACEs for a **MetadataObject** for the specified **Setting**, the protocol server MUST remove any existing ACEs for the specified **MetadataObject** for the specified **Setting**, and create new ACEs that correspond to the ACEs specified in the **MetadataModel** for the specified **Setting**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** The parent **MetadataObject** of the **MetadataObject** specified by the **MetadataModel**. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

**mergedStruct:** The **MetadataObject** into which to merge the **Properties**, localized names, and ACEs. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
<b>Action</b>	<a href="#">ActionStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>ActionParameter</b>	<a href="#">ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Association</b>	<a href="#">AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>AssociationGroup</b>	<a href="#">AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Entity</b>	<a href="#">EntityStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>FilterDescriptor</b>	<a href="#">FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Identifier</b>	<a href="#">IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>LobSystem</b>	<a href="#">LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>LobSystemInstance</b>	<a href="#">LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>

Root element name	Complex type
<b>Method</b>	<a href="#">MethodStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>MethodInstance</b>	<a href="#">MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Model</b>	<a href="#">ModelStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Parameter</b>	<a href="#">ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</a>

**settingId:** The **Setting** to merge the **Properties**, localized names and ACEs. If this value is NULL, the protocol server MUST use the default **Setting** when performing the operation.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

### 3.1.4.96.2.2 MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="mergedStruct" nillable="true" type="tns6: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. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

### 3.1.4.96.3 Complex Types

None.

### 3.1.4.96.4 Simple Types

None.

### 3.1.4.96.5 Attributes

None.

### 3.1.4.96.6 Groups

None.

### 3.1.4.96.7 Attribute Groups

None.

### 3.1.4.97 MetadataObjectReadXml

The **MetadataObjectReadXml** operation creates MetadataObjects in the metadata store, optionally along with their **Properties**, localized names, and ACEs contained by the specified MetadataModel<107>. This operation creates **Properties**, localized names, and ACEs for the default Setting. The operation also creates a default localized name for the specified **MetadataModel**, such that the **value** element, as specified in section 2.2.4.41, contains the name of the root element of the specified **MetadataModel**. If the same **MetadataObject** exists on the server, the **MetadataObjectReadXml** operation will ignore the **MetadataObject** specified in the XML representing the **MetadataModel** when the **MetadataObject** contains no properties. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:

- An Action element, as specified in [MS-BDCMFFS] section 2.1.3.3.
- An ActionParameter element, as specified in [MS-BDCMFFS] section 2.1.3.4.
- An Association element, as specified in [MS-BDCMFFS] section 2.1.3.7.
- An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.1.3.8.
- An Entity element, as specified in [MS-BDCMFFS] section 2.1.3.16.
- An Identifier element, as specified in [MS-BDCMFFS] section 2.1.3.19.
- A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.1.3.17.
- A LobSystem element, as specified in [MS-BDCMFFS] section 2.1.3.23.
- A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.1.3.24.
- A Method element, as specified in [MS-BDCMFFS] section 2.1.3.30.
- A MethodInstance element, as specified in [MS-BDCMFFS] section 2.1.3.31.
- A Parameter element, as specified in [MS-BDCMFFS] section 2.1.3.37.

The following is the WSDL port type specification of the **MetadataObjectReadXml** WSDL operation.

```
<wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
    message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
    message="tns7: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/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionSt
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/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataException**(from namespace Microsoft.BusinessData.SharePoint) under the following conditions:

- The specified **MetadataModel** contains an **Association**, and the Method for which this **Association** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of the this **Association** is one of the following:
- AssociationNavigator

- Associator
- Disassociator

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) under the following conditions:

- The **xml** element specifies a **LobSystem**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the **parentStruct** element.
- The **xml** element specifies a **LobSystemInstance**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **xml** element specifies an **Entity**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **xml** element specifies an **Identifier**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **Action**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **ActionParameter**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
- The **xml** element specifies a **Method**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **AssociationGroup**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies a **MethodInstance**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **xml** element specifies a **Parameter**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **xml** element specifies a **FilterDescriptor**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **xml** element specifies an **Association**, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.

This operation raises the [BdcExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the specified **MetadataModel** represents a Model or a **TypeDescriptor**.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names<108>and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of **Methods** allowed per **Entity**.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies **anonymous user** to have permissions other than "Execute", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  - Association
  - Entity
  - LobSystem
  - Method
  - MethodInstance
- The specified **MetadataModel** contains one or more **MetadataObjects** that do not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  - Association
  - Entity
  - LobSystem
  - Method
  - MethodInstance

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the creation of the **MetadataObjects** in the specified **MetadataModel** cannot be finished because the parent **MetadataObjects** of the **MetadataObject** to be created cannot be found in the metadata store.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified **MetadataModel** does not conform to the format specified in [MS-BDCMFFS].
- One or more **Entities** in the specified **MetadataModel** already exist in a different **LobSystem**.

- The protocol server cannot find the **Parameter** that contains the **ReturnPropertyDescriptor** associated with one of the **MethodInstances** contained by the specified **MetadataModel**.
- One or more of the **TypeDescriptors** specified in the **MetadataModel** have **DefaultValues**, but the **Method** that contains the **Parameter** that contains these **TypeDescriptors** does not contain the **MethodInstance** specified by **DefaultValues**.
- The "Model" value is not specified in the **packageContents** element.
- The "InlineProxies" value is specified in the **packageContents**, and the specified **MetadataModel** contains a **LobSystem** with an associated Business Logic Module.
- The specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type TimeStampFilter.
- The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
- The specified **MetadataModel** contains an **Association** which references the same **Entity** more than once as a source of the **Association**.
- The specified **MetadataModel** contains a StreamAccessor that specifies a ReturnPropertyDescriptor that contains other TypeDescriptors.
- The specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnPropertyDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has its type specified as "Database".
- The specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  - AccessChecker
  - AssociationNavigator
  - Associator
  - BinarySecurityDescriptorAccessor
  - BulkAssociatedIdEnumerator
  - BulkAssociationNavigator
  - BulkIdEnumerator
  - BulkSpecificFinder
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Deleter
  - Disassociator
  - SpecificFinder

- Updater
- StreamAccessor
- The specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter**, and the type of this **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator
- The **MetadataObject** specified in the input XML contains the same properties as the existing **MetadataObject** on server.

### 3.1.4.97.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.97.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage**

The request WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml
```

The SOAP body contains the **MetadataObjectReadXml** element.

#### 3.1.4.97.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage**

The response WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP body contains the **MetadataObjectReadXmlResponse** element.

### 3.1.4.97.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.



Element	Description
<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.

### 3.1.4.97.2.1 MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** Specifies the **MetadataObject** in which to create the new **MetadataObject**. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

**readStruct:** The **MetadataObject** that corresponds to the root element of the specified **MetadataModel**. The attributes of the specified **MetadataObject** MUST be ignored by the protocol

server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
<b>Action</b>	<a href="#">ActionStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>ActionParameter</b>	<a href="#">ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Association</b>	<a href="#">AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>AssociationGroup</b>	<a href="#">AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Entity</b>	<a href="#">EntityStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>FilterDescriptor</b>	<a href="#">FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Identifier</b>	<a href="#">IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>LobSystem</b>	<a href="#">LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>LobSystemInstance</b>	<a href="#">LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Method</b>	<a href="#">MethodStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>MethodInstance</b>	<a href="#">MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>
<b>Parameter</b>	<a href="#">ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</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.

### 3.1.4.97.2.2 MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**readStruct:** The MetadataObject that specifies the created **MetadataObject**. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

### 3.1.4.97.3 Complex Types

None.

### 3.1.4.97.4 Simple Types

None.

### 3.1.4.97.5 Attributes

None.

### 3.1.4.97.6 Groups

None.

### 3.1.4.97.7 Attribute Groups

None.

### 3.1.4.98 MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an XML representation of **MetadataObjects** contained by the **MetadataModel**, **Localized names**, **Properties**, and **ACEs** corresponding to **MetadataObjects** contained by the **MetadataModel** from the metadata store:

- If "Model" value is specified for the **packageContents** element, the XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.
- If "Model" value is not specified for the **packageContents** element, the XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.

The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.

If the **CameThroughRemoteAdminService** header specified in section [3.1](#) is present in the SOAP request, and if the specified **MetadataModel** contains **LobSystems** that the security principal (1) 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="tns7: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="tns7: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="tns7: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/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExcepci
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionS
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/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error under the following conditions:

- The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **MetadataObject** is a **LobSystem** or a **LobSystemInstance**, and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.

- The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **Permissions** flag is set in **packageContents**, and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.ArgumentException) error if the **packageContents** element specifies an "InlineProxies" value but does not specify the "Model" value.

### 3.1.4.98.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.98.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage**

The request WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml
```

The SOAP body contains the **MetadataObjectWriteXml** element.

#### 3.1.4.98.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage**

The response WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP body contains the **MetadataObjectWriteXmlResponse** element.

### 3.1.4.98.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>MetadataObjectWriteXml</b>	The input data for the <b>MetadataObjectWriteXml</b> WSDL operation.

Element	Description
<b>MetadataObjectWriteXmlResponse</b>	The result data for the <b>MetadataObjectWriteXml</b> WSDL operation.

### 3.1.4.98.2.1 MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The **MetadataObject** to be retrieved. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

**packageContents:** Specifies the kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, the protocol server MUST also retrieve the **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST retrieve the localized names for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same LCID as the localized names in the specified **Setting**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject**, and the "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.
- If the "InlineProxies" value is not specified, the protocol server MUST ignore Business Logic Modules in the specified **MetadataModel**.

**settingId:** The **Setting** for which **Properties**, localized names, and ACEs are to be retrieved. If **Properties**, localized names, and ACEs are not retrieved, the protocol server MUST ignore the value of this element.

### 3.1.4.98.2.2 MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXmlResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**MetadataObjectWriteXmlResult:** The XML that represents the MetadataObject represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [XML]. The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table.

Complex type	Root element
<a href="#">ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. Otherwise, the <b>ActionParameter</b> element as specified in [MS-BDCMFFS] section 2.2.3.4.
<a href="#">ActionStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the Action element is as specified in [MS-BDCMFFS] section 2.1.3.3. Otherwise, the <b>Action</b> element is as specified in [MS-BDCMFFS] section 2.2.3.3.
<a href="#">AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the AssociationGroup element is as specified in [MS-BDCMFFS] section 2.1.3.8. Otherwise, the <b>AssociationGroup</b> element is as specified in [MS-BDCMFFS] section 2.2.3.8.
<a href="#">AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the Association element is as specified in [MS-BDCMFFS] section 2.1.3.7. Otherwise, the <b>Association</b> element is as specified in [MS-BDCMFFS] section 2.2.3.7.
<a href="#">EntityStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the Entity element is as specified in [MS-BDCMFFS] section 2.1.3.16. Otherwise, the <b>Entity</b> element is as specified in [MS-BDCMFFS] section 2.2.3.11.
<a href="#">FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the FilterDescriptor element is as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the <b>FilterDescriptor</b> element is as specified in [MS-BDCMFFS] section 2.2.3.12.
<a href="#">IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the <b>packageContents</b> element is set to "Model", the Identifier element is as specified in [MS-BDCMFFS] section

Complex type	Root element
	2.1.3.19. Otherwise, the <b>Identifier</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.14.
<a href="#">LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the LobSystem element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.23. Otherwise, the <b>LobSystem</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.17.
<a href="#">LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the LobSystemInstance element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.24. Otherwise, the <b>LobSystemInstance</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.18.
<a href="#">MethodStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the Method element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.30. Otherwise, the <b>Method</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.24.
<a href="#">MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the MethodInstance element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.31. Otherwise, the <b>MethodInstance</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.25.
<a href="#">ModelStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the Model element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34. Otherwise, the <b>Model</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.
<a href="#">ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)</a>	If the "Model" value of <b>packageContents</b> is specified, the Parameter element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.37. Otherwise, the <b>Parameter</b> element is as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.29.

### 3.1.4.98.3 Complex Types

None.

### 3.1.4.98.4 Simple Types

None.

### 3.1.4.98.5 Attributes

None.

### 3.1.4.98.6 Groups

None.

### 3.1.4.98.7 Attribute Groups

None.



### 3.1.4.99 ModelReadXml

The **ModelReadXml** operation creates the **MetadataObjects** contained by the specified **MetadataModel** in the metadata store. The **Properties**, localized names, and ACEs of the **MetadataObjects** are also created. The **MetadataModel** MUST be specified as XML that conforms to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains a **LobSystem** that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all **LobSystemInstances** contained by that **LobSystem** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that has the same name, namespace, and version as an **Entity** in the metadata store and the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.

The following is the WSDL port type specification of the **ModelReadXml** WSDL operation.

```
<wsdl:operation name="ModelReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog. This operation raises the **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) error under the following conditions:

- The specified **MetadataModel** contains one or more MetadataObjects with invalid attributes.
- The specified **MetadataModel** contains an Association element that specifies an **Entity** as a source more than once.
- The specified XML does not conform to the format specified in [MS-BDCMFFS].

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The **updateModel** element is set to "false" and there is already a Model with the same name as the **Model** contained by the **MetadataModel** contained by the specified **MetadataCatalog**.
- The specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names<109> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of Methods allowed per Entity.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies the anonymous user to have permissions other than "Execute", the **packageContents**

element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:

- Association
  - Entity
  - LobSystem
  - Method
  - MethodInstance
- The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:
    - Association
    - Entity
    - LobSystem
    - Method
    - MethodInstance

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the **updateModel** element is set to "true" and the specified **MetadataCatalog** does not contain the Model contained by the **MetadataModel**.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- One of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store, but the names of the LobSystems that contain these **Entities** are not identical.
- The MetadataObjectId of the specified **MetadataCatalog** is set to zero ("0").
- The "Model" value is not specified in the **packageContents** element.
- The "InlineProxies" value is specified in **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** element with an associated Business Logic Module.
- The specified **MetadataModel** contains a **Method** that contains more than one **TimeStampFilter**.
- The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its

parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** that contains this **StreamAccessor** has its type specified as "Database".

- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut", and the type of this **MethodInstance** is one of the following values:
  - AccessChecker
  - AssociationNavigator
  - Associator
  - BinarySecurityDescriptorAccessor
  - BulkAssociatedIdEnumerator
  - BulkAssociationNavigator
  - BulkIdEnumerator
  - BulkSpecificFinder
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Deleter
  - Disassociator
  - SpecificFinder
  - Updater
  - StreamAccessor

### 3.1.4.99.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_ModelReadXml_InputMessage</b>	The request WSDL message for the <b>ModelReadXml</b> WSDL operation.

Message	Description
<b>BusinessDataCatalogSharedService_ModelReadXml_OutputMessage</b>	The response WSDL message for the <b>ModelReadXml</b> WSDL operation.

### 3.1.4.99.1.1 BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage

The request WSDL message for the **ModelReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml
```

The SOAP body contains the **ModelReadXml** element.

### 3.1.4.99.1.2 BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage

The response WSDL message for the **ModelReadXml** WSDL operation.

The SOAP body contains the **ModelReadXmlResponse** element.

### 3.1.4.99.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.99.2.1 ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified **Setting** for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**applicationRegistryStruct:** The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. The partition (1) of this **MetadataCatalog** MUST be the partition (1) of the protocol client.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server SHOULD remove all **Entity** references from the **Model**. Then, the protocol server SHOULD create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel** [<110>](#).

### 3.1.4.99.2.2 ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**ModelReadXmlResult:** The Model from the metadata store that corresponds to the specified MetadataModel. The partition (1) of this **Model** MUST be the partition (1) of the protocol client.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

### 3.1.4.99.3 Complex Types

None.

### 3.1.4.99.4 Simple Types

None.

### 3.1.4.99.5 Attributes

None.

### 3.1.4.99.6 Groups

None.

### 3.1.4.99.7 Attribute Groups

None.

### 3.1.4.100 ReadSlicedXml

The **ReadSlicedXml** operation creates the Model or LobSystem and its referenced MetadataObjects, along with the **Properties**, localized names, and ACEs of the MetadataModel in the metadata store. The MetadataModel is represented as an implementation-specific string. The **MetadataModel** MUST contain a single **Model** or **LobSystem**, along with all contained **MetadataObjects** and their **Properties** in all Settings, localized names in all **Settings**, and ACEs in all **Settings**. The protocol client typically uses this operation to restore a backed-up **Model** or **LobSystem** to a specified partition (1). The [WriteSlicedXml](#) operation, as specified in section [3.1.4.115](#), retrieves the **string** to be used as an input for this operation.

The following is the WSDL port type specification of the **ReadSlicedXml** WSDL operation.

```
<wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml"
    message="tns7: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="tns7: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/ReadSlicedXmlFault"
    message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_Fault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified



Error complex type	Condition
	MetadataCatalog.
<a href="http://schemas.microsoft.com/windows/2007/BusinessDataCatalog">PackageFormatExceptionState (from namespace http://schemas.microsoft.com/windows/2007/BusinessDataCatalog)</a>	The "Model" value is not specified in the <b>packageContents</b> element.

### 3.1.4.100.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.100.1.1 BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage

The request WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml>

The SOAP body contains the **ReadSlicedXml** element.

#### 3.1.4.100.1.2 BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage

The response WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP body contains the **ReadSlicedXmlResponse** element.

### 3.1.4.100.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.100.2.1 ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml** WSDL operation.

```
<xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The implementation-specific **string** that represents the MetadataModel.

**packageContents:** The value of this element SHOULD [<111>](#) be set to "All".

**parentStruct:** The MetadataCatalog [<112>](#) to contain the specified LobSystem or Model. The partition (1) of this **MetadataCatalog** MUST be the partition (1) of the protocol client.

**readStruct:** The value of this element MUST be a **Model** if the **MetadataModel** consists of a **Model**. Otherwise, the value of this element MUST be an **LobSystem**. The attributes of the specified **Model** or **LobSystem** MUST be ignored by the protocol server.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

### 3.1.4.100.2.2 ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml** WSDL operation.

```
<xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfString"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**errors:** Error messages that occurred while performing this operation.

**readStruct:** The Model or LobSystem from the metadata store that corresponds to the specified MetadataModel. The partition (1) of this **Model** or **LobSystem** MUST be the partition (1) of the protocol client.

### 3.1.4.100.3 Complex Types

None.

### 3.1.4.100.4 Simple Types

None.

### 3.1.4.100.5 Attributes

None.

### 3.1.4.100.6 Groups

None.

### 3.1.4.100.7 Attribute Groups

None.

### 3.1.4.101 RemoveEntityFromModel

The **RemoveEntityFromModel** operation removes the reference to the specified Entity from the specified Model.

The following is the WSDL port type specification of the **RemoveEntityFromModel** WSDL operation.

```
<wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemoveEntityFromModel"
    message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemoveEntityFromModelResponse"
    message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemoveEntityFromModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_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/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_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/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_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/RemoveEntityFromModelMetadataExceptionStateFault"
```

```

name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_FaultMessage" 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="tns7: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="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified <b>Model</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The partition (1) of the specified <b>Model</b> is different from the partition (1) of the specified <b>Entity</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>Entity</b> is not referenced by the specified <b>Model</b> .

### 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_RemoveEntityFromModel_InputMessage</b>	The request WSDL message for the

Message	Description
	<b>RemoveEntityFromModel</b> WSDL operation.
<b>BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage</b>	The response WSDL message for the <b>RemoveEntityFromModel</b> WSDL operation.

### 3.1.4.101.1.1

#### **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage**

The request WSDL message for the **RemoveEntityFromModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel
```

The SOAP body contains the **RemoveEntityFromModel** element.

### 3.1.4.101.1.2

#### **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage**

The response WSDL message for the **RemoveEntityFromModel** WSDL operation.

The SOAP body contains the **RemoveEntityFromModelResponse** element.

### 3.1.4.101.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.101.2.1 RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel** WSDL operation.

```
<xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**modelStruct:** The Model. The partition (1) of this element MUST be the partition (1) of the protocol client.

**entityStruct:** The Entity. The partition (1) of this element MUST be the partition (1) of the protocol client.

### 3.1.4.101.2.2 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>
```

### 3.1.4.101.3 Complex Types

None.

### 3.1.4.101.4 Simple Types

None.

### 3.1.4.101.5 Attributes

None.

### 3.1.4.101.6 Groups

None.

### 3.1.4.101.7 Attribute Groups

None.

### 3.1.4.102 RemoveLocalizedName

The **RemoveLocalizedName** operation removes the localized name with the specified LCID from the specified MetadataObject.

The following is the WSDL port type specification of the **RemoveLocalizedName** WSDL operation.

```
<wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"
    message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameResponse"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_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/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_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/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_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/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.

Error complex type	Condition
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.
<a href="#">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The localized name for the specified LCID does not exist in the specified <b>Setting</b> for the specified <b>MetadataObject</b> .

### 3.1.4.102.1 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.

#### 3.1.4.102.1.1

#### **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage**

The request WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName
```

The SOAP body contains the **RemoveLocalizedName** element.

#### 3.1.4.102.1.2

#### **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage**

The response WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP body contains the **RemoveLocalizedNameResponse** element.

### 3.1.4.102.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.



Element	Description
<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.

### 3.1.4.102.2.1 RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The partition (1) of this element MUST be the partition (1) of the protocol client.

**lcid:** The LCID of the localized name to be removed.

**settingId:** The Setting from which to remove the localized name.

### 3.1.4.102.2.2 RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.102.3 Complex Types

None.

### 3.1.4.102.4 Simple Types

None.

### 3.1.4.102.5 Attributes

None.

### 3.1.4.102.6 Groups

None.

### 3.1.4.102.7 Attribute Groups

None.

### 3.1.4.103 RemoveProperty

The **RemoveProperty** operation removes the specified **Property** from the specified **MetadataObject**.

The following is the WSDL port type specification of the **RemoveProperty** WSDL operation.

```
<wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified Setting.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>name</b> element is empty or "NULL".
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObject</b> does not contain the specified property.
<b>MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</b>	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_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.

#### 3.1.4.103.1.1

### **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage**

The request WSDL message for the **RemoveProperty** WSDL operation.

The SOAP action value is:

The SOAP body contains the **RemoveProperty** element.

### 3.1.4.103.1.2

#### **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage**

The response WSDL message for the **RemoveProperty** WSDL operation.

The SOAP body contains the **RemovePropertyResponse** element.

### 3.1.4.103.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.103.2.1 RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

**name:** The name of the **Property** to be deleted.

**settingId:** The Setting to delete the **Property** from.

#### 3.1.4.103.2.2 RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
```

</xs:element>

### 3.1.4.103.3 Complex Types

None.

### 3.1.4.103.4 Simple Types

None.

### 3.1.4.103.5 Attributes

None.

### 3.1.4.103.6 Groups

None.

### 3.1.4.103.7 Attribute Groups

None.

## 3.1.4.104 RemoveThrottlingRule

The **RemoveThrottlingRule** operation deletes the specified throttle configuration setting.

The following is the WSDL port type specification of the **RemoveThrottlingRule** WSDL operation.

```
<wsdl:operation name="RemoveThrottlingRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule"
    message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleResponse"
    message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage** response message, unless any faults occur.

### 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_RemoveThrottlingRule_InputMessage</b>	The request WSDL message for the <b>RemoveThrottlingRule</b> WSDL operation.
<b>BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage</b>	The response WSDL message for the <b>RemoveThrottlingRule</b> WSDL operation.

#### 3.1.4.104.1.1

### **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage**

The request WSDL message for the **RemoveThrottlingRule** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule

```

The SOAP body contains the **RemoveThrottlingRule** element.

#### 3.1.4.104.1.2

### **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage**

The response WSDL message for the **RemoveThrottlingRule** WSDL operation.

The SOAP body contains the **RemoveThrottlingRuleResponse** element.

### 3.1.4.104.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>RemoveThrottlingRule</b>	The input data for the <b>RemoveThrottlingRule</b> WSDL operation.

Element	Description
<b>RemoveThrottlingRuleResponse</b>	The result data for the <b>RemoveThrottlingRule</b> WSDL operation.

### 3.1.4.104.2.1 RemoveThrottlingRule

The **RemoveThrottlingRule** element specifies the input data for the **RemoveThrottlingRule** WSDL operation.

```
<xs:element name="RemoveThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="tns6:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**safetyNetStruct:** The throttle configuration setting that is to be deleted from the metadata store.

### 3.1.4.104.2.2 RemoveThrottlingRuleResponse

The **RemoveThrottlingRuleResponse** element specifies the result data for the **RemoveThrottlingRule** WSDL operation.

```
<xs:element name="RemoveThrottlingRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.104.3 Complex Types

None.

### 3.1.4.104.4 Simple Types

None.

### 3.1.4.104.5 Attributes

None.

### 3.1.4.104.6 Groups

None.

### 3.1.4.104.7 Attribute Groups

None.

### 3.1.4.105 SaveLocalizedName

The **SaveLocalizedName** operation adds or replaces a localized name for the specified **MetadataObject**. If a localized name with the same LCID and Setting as the specified LCID and **Setting** already exists for the specified **MetadataObject**, the protocol server MUST replace the localized name of the specified **MetadataObject** with the specified localized name.

The following is the WSDL port type specification of the **SaveLocalizedName** WSDL operation.

```
<wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName"
    message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse"
    message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_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 faults occur.



If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified localized name is set to null.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> does not exist.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of localized names.

### 3.1.4.105.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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 <b>SaveLocalizedName</b> WSDL operation.

#### 3.1.4.105.1.1

### **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage**

The request WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP action value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName

The SOAP body contains the **SaveLocalizedName** element.

### 3.1.4.105.1.2

#### **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage**

The response WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP body contains the **SaveLocalizedNameResponse** element.

### 3.1.4.105.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.105.2.1 SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName** WSDL operation.

```
<xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client.

**lcid:** The LCID of the localized name to be saved.

**name:** The localized name of the **MetadataObject**.

**settingId:** The Setting to which to write the localized name.

#### 3.1.4.105.2.2 SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName** WSDL operation.

```

<xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.105.3 Complex Types

None.

### 3.1.4.105.4 Simple Types

None.

### 3.1.4.105.5 Attributes

None.

### 3.1.4.105.6 Groups

None.

### 3.1.4.105.7 Attribute Groups

None.

### 3.1.4.106 SaveProperty

The **SaveProperty** operation adds or replaces a **Property** for the specified **MetadataObject**. If a **Property** with the same name as the specified **Property** already exists in the same Setting for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the WSDL port type specification of the **SaveProperty** WSDL operation.

```

<wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
    message="tns7: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="tns7:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_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/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<a href="#">ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of <b>Properties</b> .
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>MetadataObject</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_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.

#### 3.1.4.106.1.1 BusinessDataCatalogSharedService\_SaveProperty\_InputMessage

The request WSDL message for the **SaveProperty** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty
```

The SOAP body contains the **SaveProperty** element.

#### 3.1.4.106.1.2 BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage

The response WSDL message for the **SaveProperty** WSDL operation.

The SOAP body contains the **SavePropertyResponse** element.

### 3.1.4.106.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.106.2.1 SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty** WSDL operation.

```
<xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="tns6:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The **MetadataObject**. The partition (1) of this **MetadataObject** MUST be the partition (1) of the protocol client. The value of its **metadataObjectId** MUST be ignored by the protocol server.

**propertyStruct:** The **Property** to be saved.

### 3.1.4.106.2.2 SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty** WSDL operation.

```
<xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.106.3 Complex Types

None.

### 3.1.4.106.4 Simple Types

None.

### 3.1.4.106.5 Attributes

None.

### 3.1.4.106.6 Groups

None.

### 3.1.4.106.7 Attribute Groups

None.

### 3.1.4.107 SetAccessControlEntries

The **SetAccessControlEntries** operation sets ACEs for the specified **MetadataObject**. The protocol server MUST delete all ACEs of the specified **MetadataObject** for the specified Setting, and then add the specified ACEs to the specified **MetadataObject**.

Note that if the **SetAccessControlEntries** element, as specified in section [3.1.4.107.2.1](#), contains an **accessControlEntries** element such that any two of its **AccessControlEntryStruct** elements contain the same value for the **principalName** element, the protocol server MUST add only one ACE for that **principalName**.

The following is the WSDL port type specification of the **SetAccessControlEntries** WSDL operation.

```

<wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntries"
message="tns7: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="tns7: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/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionState
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/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="#">AccessDeniedExceptionState (from namespace)</a>	The security principal

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a>	(1) in whose context the protocol client operates is not authorized to set permissions on the specified <b>MetadataObject</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	At least one of the specified ACEs contain an invalid value for <b>principalName</b> element.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The <b>MetadataObjectId</b> for the specified <b>MetadataObject</b> is set to zero ("0").
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify anonymous user to have permissions other than "Execute".

### 3.1.4.107.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.107.1.1

### **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage**

The request WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP action value is:



The SOAP body contains the **SetAccessControlEntries** element.

### 3.1.4.107.1.2

#### **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage**

The response WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP body contains the **SetAccessControlEntriesResponse** element.

### 3.1.4.107.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SetAccessControlEntries</b>	The input data for the <b>SetAccessControlEntries</b> WSDL operation.
<b>SetAccessControlEntriesResponse</b>	The result data for the <b>SetAccessControlEntries</b> WSDL operation.

#### 3.1.4.107.2.1 SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="tns6:ArrayOfAccessControlEntryStruct"/>
      <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 the partition (1) of the protocol client. The **MetadataObject** MUST be of one of the following types:

- Entity
- LobSystem
- MetadataCatalog
- Method
- MethodInstance

- Model

**accessControlEntries:** The ACEs.

**settingId:** The Setting to which to write the ACEs.

### 3.1.4.107.2.2 SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntriesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.107.3 Complex Types

None.

### 3.1.4.107.4 Simple Types

None.

### 3.1.4.107.5 Attributes

None.

### 3.1.4.107.6 Groups

None.

### 3.1.4.107.7 Attribute Groups

None.

### 3.1.4.108 SetDefaultActionForEntity

The **SetDefaultActionForEntity** operation sets the default Action for the specified Entity.

The following is the WSDL port type specification of the **SetDefaultActionForEntity** WSDL operation.

```
<wsdl:operation name="SetDefaultActionForEntity"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntity"
    message="tns7: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="tns7: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/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionEx
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="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_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/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_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/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptio
nFault_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 faults occur.

If either of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>Entity</b> .
<a href="#">MetadataObjectNotFoundExceptionState (from namespace</a>	The specified

Error complex type	Condition
<a href="#">Microsoft.SharePoint.BusinessData</a>	<b>Entity</b> does not exist or does not contain an <b>Action</b> with the specified name.

### 3.1.4.108.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.108.1.1

### **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage**

The request WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity>

The SOAP body contains the **SetDefaultActionForEntity** element.

#### 3.1.4.108.1.2

### **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage**

The response WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP body contains the **SetDefaultActionForEntityResponse** element.

### 3.1.4.108.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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

Element	Description
	operation.

### 3.1.4.108.2.1 SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity** WSDL operation.

```
<xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
      <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityStruct:** The Entity to which a default Action is to be set. The partition (1) of this **Entity** MUST be the partition (1) of the protocol client.

**actionName:** The name of the **Action** to be set as default **Action** to the specified **Entity**.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.108.2.2 SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity** WSDL operation.

```
<xs:element name="SetDefaultActionForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.108.3 Complex Types

None.

### 3.1.4.108.4 Simple Types

None.

### 3.1.4.108.5 Attributes

None.

### 3.1.4.108.6 Groups

None.

### 3.1.4.108.7 Attribute Groups

None.

### 3.1.4.109 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** operation sets the **DefaultValue** of the **TypeDescriptor** with the **MetadataObjectId** specified by the **TypeDescriptorId** element of the specified **DefaultValueStruct** complex type for the **MethodInstance**, with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct**.

The following is the WSDL port type specification of the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="SetDefaultValuesForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor"
    message="tns7: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="tns7: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/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"
    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="tns7: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="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage**

request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage**

response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the <b>Method</b> that contains the <b>Parameter</b> that contains the specified <b>TypeDescriptor</b> .
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>DefaultValue</b> is invalid.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>TypeDescriptor</b> already contains the implementation-specific maximum number of <b>DefaultValues</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>TypeDescriptor</b> does not exist or the specified <b>MethodInstance</b> does not exist.

### 3.1.4.109.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

### 3.1.4.109.1.1

#### **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage**

The request WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor
```

The SOAP body contains the **SetDefaultValuesForTypeDescriptor** element.

### 3.1.4.109.1.2

#### **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage**

The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **SetDefaultValuesForTypeDescriptorResponse** element.

### 3.1.4.109.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.109.2.1 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.



```

<xs:element name="SetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="defaultValueStruct" nillable="true" type="tns6:DefaultValueStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**defaultValueStruct:** The DefaultValue to be set for the specified TypeDescriptor. The partition (1) of this element MUST be the partition (1) of the protocol.

**partitionId:** The partition (1) of the protocol client.

### 3.1.4.109.2.2 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>

```

### 3.1.4.109.3 Complex Types

None.

### 3.1.4.109.4 Simple Types

None.

### 3.1.4.109.5 Attributes

None.

### 3.1.4.109.6 Groups

None.

### 3.1.4.109.7 Attribute Groups

None.

### 3.1.4.110 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** operation sets the Business Logic Modules [<113>](#) for the specified LobSystem.

The following is the WSDL port type specification of the **SetLobSystemDataByLobSystemId** WSDL operation.

```
<wsdl:operation name="SetLobSystemDataByLobSystemId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_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/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_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/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_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/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>LobSystem</b> .
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified <b>LobSystem</b> does not exist.

### 3.1.4.110.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.110.1.1

#### **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage**

The request WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId
```

The SOAP body contains the **SetLobSystemDataByLobSystemId** element.

#### 3.1.4.110.1.2

#### **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage**

The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP body contains the **SetLobSystemDataByLobSystemIdResponse** element.

### 3.1.4.110.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.110.2.1 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```
<xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
        minOccurs="0" name="proxyGenerationResult" nillable="true"
        type="tns2:ProxyGenerationResult"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**proxyGenerationResult:** The Business Logic Modules [<114>](#) to be set in the specified **LobSystem**.

**partitionId:** The partition (1) of the protocol client.

#### 3.1.4.110.2.2 SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```
<xs:element name="SetLobSystemDataByLobSystemIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.110.3 Complex Types

None.

### 3.1.4.110.4 Simple Types

None.

### 3.1.4.110.5 Attributes

None.

### 3.1.4.110.6 Groups

None.

### 3.1.4.110.7 Attribute Groups

None.

### 3.1.4.111 TypeDescriptorCreate

The **TypeDescriptorCreate** operation creates a TypeDescriptor in the metadata store.

The following is the WSDL port type specification of the **TypeDescriptorCreate** WSDL operation.

```
<wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate"
    message="tns7: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="tns7: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="tns7: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/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter specified by **parameterStruct** element.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The **TypeDescriptor** specified by the **rawValues** element and the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element are contained by different **Parameters**.
- The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element is "NULL", and the **Parameter** has another root **TypeDescriptor**.
- The **TypeDescriptor** and the parent **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element have the **IsCollection** flag set.
- The **TypeDescriptor** is associated with a **FilterDescriptor**, and the **FilterDescriptor** is not contained by the **Method** that contains the **Parameter** specified by the **parameterStruct** element.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element has the **IsCollection** flag set and already contains another **TypeDescriptor**.
- The **TypeDescriptor** has its read-only flag set, and the **Direction** attribute of the **Parameter** is set to "In".

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains another **TypeDescriptor** that has the same name.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains an implementation-specific maximum number of **TypeDescriptors**.
- The metadata store already contains an implementation-specific maximum number of **TypeDescriptors** associated with the **FilterDescriptor** referenced by the specified **TypeDescriptor**.

### 3.1.4.111.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.111.1.1

#### **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage**

The request WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate>

The SOAP body contains the **TypeDescriptorCreate** element.

#### 3.1.4.111.1.2

#### **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage**

The response WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP body contains the **TypeDescriptorCreateResponse** element.

### 3.1.4.111.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

### 3.1.4.111.2.1 TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate** WSDL operation.

```
<xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** The **TypeDescriptor** to create. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** to create. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client. If the **TypeDescriptor** to be created is a root **TypeDescriptor**, then the value of this element MUST be NULL.

**parameterStruct:** The **Parameter** containing the created **TypeDescriptor**. The partition (1) of this **Parameter** MUST be the partition (1) of the protocol client.

### 3.1.4.111.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorCreateResult:** The created **TypeDescriptor**. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.

### 3.1.4.111.3 Complex Types

None.

### 3.1.4.111.4 Simple Types

None.



### 3.1.4.111.5 Attributes

None.

### 3.1.4.111.6 Groups

None.

### 3.1.4.111.7 Attribute Groups

None.

### 3.1.4.112 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** operation merges the **Properties** and localized names contained by the **TypeDescriptors** in the specified **MetadataModel** into an existing **TypeDescriptor** in the metadata store. The **MetadataModel** **MUST** be specified as a well-formed external parsed entity, as specified in [\[XML\]](#) section 4.3.2, and **MUST** have as a root element the **TypeDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

The following is the WSDL port type specification of the **TypeDescriptorMergeXml** WSDL operation.

```
<wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml"
message="tns7: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="tns7: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/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7: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/TypeDescriptorMergeXmlArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7: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/TypeDescriptorMergeXmlBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```

```

message="tns7: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="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFault_FaultMessage" 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="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)</a>	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Method that contains the specified Parameter.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The "Model" value is specified in the <b>packageContents</b> element.
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData">ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	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 as its value.
<a href="http://schemas.datacontract.org/2004/07/System">InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The specified <b>MetadataModel</b> specifies one or more <b>TypeDescriptors</b>

Error complex type	Condition
	that already contain the implementation-specific maximum number of localized names, and the <b>packageContents</b> element has "LocalizedNames" as its value.
<a href="#">MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The specified Parameter could not be found and the specified parent <b>TypeDescriptor</b> is set to null.
<a href="#">PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)</a>	The <b>TypeDescriptor</b> specified in the <b>MetadataModel</b> does not exist in the specified <b>TypeDescriptor</b> or the specified <b>Parameter</b> if a <b>TypeDescriptor</b> is not specified, or the specified parent <b>TypeDescriptor</b> could not be found.

### 3.1.4.112.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.

#### 3.1.4.112.1.1

#### **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage**

The request WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP action value is:

The SOAP body contains the **TypeDescriptorMergeXml** element.

### 3.1.4.112.1.2

#### **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage**

The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP body contains the **TypeDescriptorMergeXmlResponse** element.

### 3.1.4.112.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.112.2.1 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml** WSDL operation.

```
<xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **TypeDescriptor** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

**packageContents:** Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **TypeDescriptors** for the specified Setting. During this merge, if a **Property** that has the same name and setting as the **Property** specified in the MetadataModel already exists

for the specified **TypeDescriptor**, the protocol server MUST remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **TypeDescriptor**, the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.

- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST merge the localized names for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name that has the same LCID and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **TypeDescriptor**, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **TypeDescriptor**, the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The Parameter that contains the TypeDescriptor that is updated. The partition (1) of this **Parameter** MUST be the partition (1) or the protocol client.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. The partition (1) of this **TypeDescriptor**, if it is specified, MUST be the partition (1) of the protocol client. This **TypeDescriptor** MUST be NULL if the **TypeDescriptor** specified by the XML is a root TypeDescriptor.

**settingId:** The **Setting** with which to merge the **Properties** and localized names. If the value is NULL, the protocol server MUST use the default **Setting** when performing this operation.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

### 3.1.4.112.2.2 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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="TypeDescriptorMergeXmlResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorMergeXmlResult:** The TypeDescriptor into which the **Properties** and localized names were merged. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.



```

edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7: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/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7: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/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSt
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/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method containing the specified Parameter.

This operation raises a [PackageFormatExceptionState \(from namespace http://schemas.microsoft.com/windows/2007/BusinessDataCatalog\)](http://schemas.microsoft.com/windows/2007/BusinessDataCatalog) error if the "Model" value is not specified in the **packageContents** element.

This operation raises a `ArgumentException` (from namespace `http://schemas.datacontract.org/2004/07/System`) error under the following conditions:

- The data type referenced by a **TypeDescriptor** contained by the **MetadataModel** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
- The specified **TypeDescriptor** is not contained by the specified **Parameter**.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/windows/2007/BusinessDataCatalog) error if the specified **TypeDescriptor** already contains another

**TypeDescriptor** with the same name as the **TypeDescriptor** that corresponds to the **MetadataModel**.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified **MetadataModel** contains a **TypeDescriptor** that contains more **TypeDescriptors** than the implementation-specific maximum number of **TypeDescriptors**.
- The specified **TypeDescriptor** contains the implementation-specific maximum number of **TypeDescriptors**.

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified **Parameter** or the specified **TypeDescriptor** does not exist.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified XML does not conform to the format specified in [MS-BDCMFFS].
- The **Method** containing the specified **Parameter** does not contain the **FilterDescriptor** referenced by the specified **MetadataModel**.
- The specified **MetadataModel** contains a **TypeDescriptor** that has the **ReadOnly** flag set, and the specified **Parameter** has the **Direction** attribute set to "In".
- The specified **TypeDescriptor** is NULL, and the specified **Parameter** already has a root **TypeDescriptor**.
- The specified **TypeDescriptor** has the **IsCollection** flag set, and the **TypeDescriptor** that corresponds to the specified **MetadataModel** also has the **IsCollection** flag set.
- The specified **TypeDescriptor** has the **IsCollection** flag set and already contains a **TypeDescriptor**.
- The **MetadataModel** contains a **TypeDescriptor** that has the **IsCollection** flag set and contains another **TypeDescriptor** that has the **IsCollection** flag set.

### 3.1.4.113.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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.



### 3.1.4.113.1.1

#### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage

The request WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml
```

The SOAP body contains the **TypeDescriptorReadXml** element.

### 3.1.4.113.1.2

#### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage

The response WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP body contains the **TypeDescriptorReadXmlResponse** element.

### 3.1.4.113.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.113.2.1 TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml** WSDL operation.

```
<xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies the part of the **MetadataModel** to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The **Parameter** in which to create the **TypeDescriptors** contained by the **MetadataModel**. The partition (1) of this **Parameter** MUST be the partition (1) of the protocol client.

**parentTypeDescriptorStruct:** The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. The value of this element MUST be NULL if the **MetadataModel** contains the root **TypeDescriptor** of the **Parameter**. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

### 3.1.4.113.2.2 TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml** WSDL operation.

```
<xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorReadXmlResult:** The **TypeDescriptor** from the metadata store that is corresponding to the specified **MetadataModel**. The partition (1) of this **TypeDescriptor** MUST be the partition (1) of the protocol client.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

### 3.1.4.113.3 Complex Types

None.

### 3.1.4.113.4 Simple Types

None.

### 3.1.4.113.5 Attributes

None.

### 3.1.4.113.6 Groups

None.

### 3.1.4.113.7 Attribute Groups

None.

### 3.1.4.114 Update

The **Update** operation updates a MetadataObject in the metadata store.

The following is the WSDL port type specification of the **Update** WSDL operation.

```
<wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns7: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="tns7: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/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns7: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="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"
    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="tns7: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="tns7:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```
message="tns7:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_Update\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Update\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under either of the following conditions:

- The specified **MetadataObject** name is "NULL" or empty.
- The length of the specified **MetadataObject** name exceeds 255 characters.

This operation raises the [ConcurrentModificationExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be raised when one context reads the **MetadataObject**, another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the parent **MetadataObject** contains another **MetadataObject** with the same **MetadataObject** name.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the parent of the specified **MetadataObject** already contains the implementation-specific maximum number of **MetadataObjects** of the same type as the specified **MetadataObject**.

This operation raises the [InvalidMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The specified **MetadataObject** is a root **TypeDescriptor** and is being updated to be part of a **Parameter** that already has a root **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor** that has its **Parameter** being changed to the specified **Parameter**, and the specified **Parameter** already has a root **TypeDescriptor**. [<115>](#)
- The specified **MetadataObject** is a **TypeDescriptor**, and the **IsCollection** flag cannot be set on a **TypeDescriptor** if its containing **TypeDescriptor** also has the **IsCollection** flag set.
- The specified **MetadataObject** is a **TypeDescriptor**, and a **TypeDescriptor** with the **IsCollection** flag set can only contain one **TypeDescriptor**.

- The specified **MetadataObject** is a **TypeDescriptor**, and the **FilterDescriptor** associated with the specified **TypeDescriptor** is not defined for the **Method** that contains the **Parameter** containing the specified **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the containing **TypeDescriptor** is different from the **Parameter** containing the specified **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has a **TypeDescriptor** hierarchy deeper than an implementation-specific, maximum-allowed depth.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has the **Direction** attribute set to "In", but, the specified **TypeDescriptor** has "Read-Only" for the **TypeDescriptorFlags** attribute.
- The operation cannot be performed because the specified **MetadataObject** is the **FilterDescriptor**, and one of the following conditions exists:
  - The **Method** associated with the specified **FilterDescriptor** already contains a **FilterDescriptor** of type **TimeStampFilter**, and the specified **FilterDescriptor** is being changed to a **FilterDescriptor** of type **TimeStampFilter**.
  - The **Method** that contains the specified **FilterDescriptor** also contains a **MethodInstance** of type **ChangedIdEnumerator** or **DeletedIdEnumerator**, and the type of the **FilterDescriptor** is being changed from **TimeStampFilter** to another type.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The operation cannot be performed because the specified **MetadataObject** is an **Association** or a **MethodInstance** contained by an active **Entity**.<116>

The operation cannot be performed because the specified **MetadataObject** is an **Entity** that has its name or namespace being updated, and another **Entity** with the specified name and namespace is currently being referenced by other **MetadataObjects**. This operation raises the **MetadataException** (from namespace **Microsoft.SharePoint.BusinessData**) error under the following conditions:

- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the specified type for the **MethodInstance** in the request message requires a **Parameter** with the **Direction** attribute set to "In" or "InOut" to be present on the **Method** containing the specified **Association** or **MethodInstance**. However, the specified type for the existing **MethodInstance** on the protocol server does not require such a **Parameter**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** of the specified **ReturnPropertyDescriptor** is not contained by the same **Method** as the specified **Association** or **MethodInstance**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** containing the specified **ReturnPropertyDescriptor** has the **Direction** attribute set to "In".
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnPropertyDescriptor** is required for **MethodInstance** if the type of **MethodInstance** is one of the following values. However, it is passed in as NULL or zero.
- AccessChecker

- AssociationNavigator
- ChangedIdEnumerator
- DeletedIdEnumerator
- Finder
- IdEnumerator
- Scalar
- SpecificFinder
- StreamAccessor
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to not contain any **TypeDescriptors** for the specified type of the **MethodInstance**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to have the **IsCollection** flag set for the specified type of the **MethodInstance**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to have the **IsCollection** flag not set for the specified type of the **MethodInstance**. This is the case if the specified type of **MethodInstance** is one of the following values:
  - ChangedIdEnumerator
  - DeletedIdEnumerator
  - Finder
  - IdEnumerator
- The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because the specified **Parameter** contains a **ReturnTypeDescriptor** of a **MethodInstance**.
- The specified **MetadataObject** is a **Parameter**, and the **Method** that contains the specified **Parameter** already contains a **Parameter** with the **Direction** attribute set to "Return".
- The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because one of the **TypeDescriptors** contained by the specified **Parameter** has the "Read-Only" value set in the **TypeDescriptorFlags** attribute.
- The specified **MetadataObject** is an **Entity**, and the specified CacheUsage or Version is invalid.
- The specified **MetadataObject** is a **Parameter**, and the specified direction is invalid.
- The specified **MetadataObject** is a **MethodInstance**, and the specified type is invalid.
- The specified **MetadataObject** is a **TypeDescriptor**, and the specified flags are invalid.
- The specified **MetadataObject** is a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** is required not to contain any other **TypeDescriptors** for

**MethodInstance** of **StreamAccessor** type, and the type for the **LobSystem** containing the **Entity** containing **MethodInstance** of **StreamAccessor** type is **DataBase**.

- The specified **MetadataObject** is a **MethodInstance**, and one of the following conditions is true:
  - The type of the specified **MethodInstance** is **IdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **IdEnumerator**.
  - The type of the specified **MethodInstance** is **AccessChecker**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **AccessChecker**.
  - The type of the specified **MethodInstance** is **Deleter**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **Deleter**.
  - The type of the specified **MethodInstance** is **ChangedIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **ChangedIdEnumerator**.
  - The type of the specified **MethodInstance** is **DeletedIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **DeletedIdEnumerator**.
  - The type of the specified **MethodInstance** is **BulkIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **BulkIdEnumerator**.<117>

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified **MetadataObject** does not exist.

Upon successful completion of this operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to zero.

If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified **MetadataObject** in the metadata store.

MetadataObject	Action
<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>, then 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> that contains the specified <b>Parameter</b> MUST NOT have their <b>ordinalNumber</b> attributes altered.&lt;118&gt;</p>
<b>MethodInstance</b>	<p>When the <b>isDefault</b> attribute of the specified <b>MethodInstance</b> is set to "true", 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 in the containing <b>DataClass</b> to "false". When the <b>isDefault</b> attribute of the specified</p>

MetadataObject	Action
	<b>MethodInstance</b> is set to "false" (and it was previously set to "true"), the protocol server SHOULD <119> set the <b>IsDefault</b> attribute of a <b>MethodInstance</b> with the same value for <b>MethodInstanceType</b> in the containing <b>DataClass</b> to "true". The protocol server MUST determine the <b>MethodInstance</b> to alter, based on an implementation-specific algorithm.

### 3.1.4.114.1 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.

#### 3.1.4.114.1.1 BusinessDataCatalogSharedService\_Update\_InputMessage

The request WSDL message for the **Update** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update
```

The SOAP body contains the **Update** element.

#### 3.1.4.114.1.2 BusinessDataCatalogSharedService\_Update\_OutputMessage

The response WSDL message for the **Update** WSDL operation.

The SOAP body contains the **UpdateResponse** element.

### 3.1.4.114.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.114.2.1 Update

The **Update** element specifies the input data for the **Update** WSDL operation.

```
<xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```



```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**metadataObjectStruct:** The MetadataObject to update. The MetadataObjectId and the partition (1) of the specified **MetadataObject** MUST be used to identify the **MetadataObject** to update. The remaining values of the specified **MetadataObject** MUST be used to update the values associated with the identified **MetadataObject** in the metadata store.

### 3.1.4.114.2.2 UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update** WSDL operation.

```

<xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**UpdateResult:** The updated MetadataObject.

### 3.1.4.114.3 Complex Types

None.

### 3.1.4.114.4 Simple Types

None.

### 3.1.4.114.5 Attributes

None.

### 3.1.4.114.6 Groups

None.

### 3.1.4.114.7 Attribute Groups

None.

### 3.1.4.115 WriteSlicedXml

The **WriteSlicedXml** operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model, [<120>](#) along with its included MetadataObjects. This operation can also optionally retrieve the localized names, **Properties**, and ACEs in all Settings. The protocol client typically uses this operation to back up a **Model** or an **LobSystem** in a specified partition (1).

The [ReadSlicedXml](#) operation, as specified in section [3.1.4.100](#), can be used to restore the **Model** or **LobSystem** by specifying the string returned from this operation.

The following is the WSDL port type specification of the **WriteSlicedXml** WSDL operation.

```
<wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml"
    message="tns7: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"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns7: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/BusinessDataCatalogSharedService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage** request message, and

the protocol server MUST respond with a **BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrasructure">AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrasructure)</a>	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified <b>Model</b> or <b>LobSystem</b> and the <b>CameThroughRemoteAdminService</b> header specified in section 3.1 is present in the SOAP request.
<a href="http://schemas.datacontract.org/2004/07/System">ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)</a>	The "InlineProxies" value requires the "Model" value to also be specified for the <b>packageContents</b> element.

### 3.1.4.115.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<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 operation.

#### 3.1.4.115.1.1 BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage

The request WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml
```

The SOAP body contains the **WriteSlicedXml** element.

### 3.1.4.115.1.2

#### BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage

The response WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP body contains the **WriteSlicedXmlResponse** element.

### 3.1.4.115.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<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.

#### 3.1.4.115.2.1 WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The LobSystem or Model to be retrieved. The partition (1) of this **Model** or **LobSystem** MUST be the partition (1) of the protocol client.

**packageContents:** This value of this element SHOULD [<121>](#) be set to "All".

#### 3.1.4.115.2.2 WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**WriteSlicedXmlResult:** An implementation-specific string representing the specified Model or LobSystem.

### **3.1.4.115.3 Complex Types**

None.

### **3.1.4.115.4 Simple Types**

None.

### **3.1.4.115.5 Attributes**

None.

### **3.1.4.115.6 Groups**

None.

### **3.1.4.115.7 Attribute Groups**

None.

### **3.1.5 Timer Events**

None.

### **3.1.6 Other Local Events**

None.

## 4 Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view of how the protocol client operates with the protocol server when running such an operation.

The examples in this section manipulate LobSystem and Entities. However, the concepts 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** named ExampleCRM.
2. The protocol client uses the **MetadataObjectCreate** operation as shown in the following code example.

```
// Assumes a service reference to the Business Data Connectivity shared service has
// been created.

// Instantiates the Business Data Connectivity SharedService client.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// Instantiates the AdministrationMetadataCatalogStruct complex type.
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct();
myBDC.id = 1;

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myBDC.partitionId = myPartition;

// Instantiates the LobSystem object.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();

// Sets up the LobSystem object.
myLob.partitionId = myPartition;
myLob.name = "ExampleCRM";
myLob.systemType = BDCServiceReference.SystemType.Database;

// Uses the MetadataObjectCreate operation to create the LobSystem.
myClient.MetadataObjectCreate(myLob, myBDC);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/MetadataObjectCreate</a:Action>
    <a:MessageID>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:MessageID>
```

```

    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
      http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </s:Header>
    <s:Body>
      <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <rawValues i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>0</b:id>
          <b:isCached>>false</b:isCached>
          <b:name>ExampleCRM</b:name>
          <b:objectVersion>0</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:systemType>Database</b:systemType>
        </rawValues>
        <parentStruct i:type="b:AdministrationMetadataCatalogStruct"
          xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
          instance">
          <b:id>1</b:id><b:isCached>>false</b:isCached><b:name
          i:nil="true"/><b:objectVersion>0</b:objectVersion><b:partitionId>0c37852b-34d0-418e-91c6-
          2ac25af4be5b</b:partitionId>
        </parentStruct>
      </MetadataObjectCreate>
    </s:Body>
  </s:Envelope>

```

#### Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
      alogSharedService/MetadataObjectCreateResponse</a:Action>
    <a:RelatesTo>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:RelatesTo>
  </s:Header>
  <s:Body>
    <MetadataObjectCreateResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="b:LobSystemStruct"
        xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </MetadataObjectCreateResult>
    </MetadataObjectCreateResponse>
  </s:Body>
</s:Envelope>

```

## 4.2 Setting the Security Information of a MetadataObject

This example illustrates how a user can set security information for an LobSystem.

This example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to set ACEs on the **LobSystem** named ExampleCRM.
2. The protocol client uses the **SetAccessControlEntries** operation as shown in the following code.

```
//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;
BDCServiceReference.AccessControlEntryStruct myACL;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//setup the ACL object
myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
myACL.rights = 23;
myACL.principalName = "Domain\\UserName";
myACL.principalDisplayName = "UserName";

myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] {
myACL };

// set the ACL on the metadataobject by calling the SetAccessControlEntries method
myClient.SetAccessControlEntries(myLob, myACLs, null);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <SetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
```



```

    <b:objectVersion>0</b:objectVersion>
    <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
    <b:systemType>Database</b:systemType>
  </metadataObjectStruct>
  <accessControlEntries xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:AccessControlEntryStruct>
      <b:principalBinaryForm i:nil="true"/>
      <b:principalDisplayName>UserName</b:principalDisplayName>
      <b:principalName>Domain\UserName</b:principalName>
      <b:rights>23</b:rights>
    </b:AccessControlEntryStruct>
  </accessControlEntries>
  <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</SetAccessControlEntries>
</s:Body>
</s:Envelope>

```

#### Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SetAccessControlEntriesResponse</a:Action>
    <a:RelatesTo>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

### 4.3 Reading the Security Information of a MetadataObject

This example illustrates how a user can read the ACEs of an LobSystem.

This example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** named ExampleCRM.
2. The protocol client uses the **GetAccessControlEntries** operation as shown in the following code.

```

//This method shows how to set the ACL entries on an entity.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiates the BDCSharedServiceClient.
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

```

```

//Obtain the metadaobject with the name.
myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Read the ACL entries on the entity
myACLs = myClient.GetAccessControlEntries(myLob, null, true);

```

### Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <GetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </metadataObjectStruct>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      <fallback>true</fallback>
    </GetAccessControlEntries>
  </s:Body>
</s:Envelope>

```

### Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse</a:Action>
    <a:RelatesTo>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AccessControlEntryStruct>

```

```

        <b:principalBinaryForm i:nil="true"/>
        <b:principalDisplayName>UserName</b:principalDisplayName>
        <b:principalName>Domain\UserName</b:principalName>
        <b:rights>23</b:rights>
    </b:AccessControlEntryStruct>
</GetAccessControlEntriesResult>
</GetAccessControlEntriesResponse>
</s:Body>
</s:Envelope>

```

## 4.4 Creating an Entity

This example illustrates how a user can create an Entity in the metadata store.

The example assumes that:

- An **LobSystem** that contains the **Entity** is already created in the metadata store.
- The **LobSystem** is named ExampleCRM.
- The **PartitionId** used when creating the **LobSystem** is 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
- The **LobSystem** has an ACE associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** named Customer in the namespace example.com with an estimated instance count of 100.
2. The protocol client uses the **EntityCreate** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Obtain the LOB system before creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Instantiate the entity object.
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

//Set properties.
myEntity.name = "Customer";
myEntity.@namespace = "example.com";
myEntity.isCached = true;
myEntity.objectVersion = 0;
System.Version ver = new Version(1,0,0,0);
myEntity.version = ver;
myEntity.partitionId = myPartition;
myEntity.estimatedInstanceCount = 100;

//Create the entity.
myClient.EntityCreate(myEntity, myLob, null);

```

3. The protocol server creates the **Entity** in the metadata store.
4. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      xmlns:m="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate"
      s:mustUnderstand="1">m:EntityCreate</a:Action>
    <a:MessageID>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
      s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </a:To>
  </s:Header>
  <s:Body>
    <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues xmlns:b="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>0</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>>false</b:active>
        <b:lobSystemId>0</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </rawValues>
      <lobSystemStruct xmlns:b="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </lobSystemStruct>
      <modelStruct i:nil="true" xmlns:b="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </EntityCreate>
  </s:Body>
</s:Envelope>
```

## Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse</a:Action>
    <a:RelatesTo>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:RelatesTo>
  </s:Header>
  <s:Body>
    <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <EntityCreateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>>false</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </EntityCreateResult>
    </EntityCreateResponse>
  </s:Body>
</s:Envelope>
```

## 4.5 Activating an Entity

This example illustrates how a user can set a version of an Entity to be active in the metadata store.

This example assumes that:

- The preceding examples have successfully finished.
- After successfully creating the Customer **Entity**, the user has added some other MetadataObjects to it, such as an Identifier, a Method, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** named Customer in the namespace example.com with the **PartitionID** 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
2. The protocol client uses the **Activate** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
```

```

System.Version ver = new Version(1,0,0,0);

myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer",
ver, partition);

BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

**Request body:**

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Activate</a:Action>
    <a:MessageID>urn:uuid:351c762f-9a6f-4bc9-a208-9049c347c23d</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
</s:Envelope>

```

**Response body:**

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">

```

```

    <s:Header>
      <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse</a:Action>
      <a:RelatesTo>urn:uuid:d15e58ca-2cb9-4528-86f3-728a00f6c643</a:RelatesTo>
    </s:Header>
    <s:Body>
      <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <ActivateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>106</b:id>
          <b:isCached>true</b:isCached>
          <b:name>Customer</b:name>
          <b:objectVersion>1</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:active>true</b:active>
          <b:lobSystemId>105</b:lobSystemId>
          <b:modelId>0</b:modelId>
          <b:namespace>example.com</b:namespace>
          <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
            <c:_Build>0</c:_Build>
            <c:_Major>1</c:_Major>
            <c:_Minor>0</c:_Minor>
            <c:_Revision>0</c:_Revision>
          </b:version>
          <b:cacheUsage>Default</b:cacheUsage>
          <b:description i:nil="true"/>
          <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
        </ActivateResult>
      </ActivateResponse>
    </s:Body>
  </s:Envelope>

```

## 4.6 Reading an Entity

This example shows how a user can read an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** named Customer in the namespace example.com from the metadata store.
2. The protocol client uses the **GetEntityWithNameAndNamespace** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server retrieves the attributes of the stored **Entity**.

5. The protocol server returns an **Entity** object to the protocol client.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace</a:Action>
    <a:MessageID>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespace
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
      <name>Customer</name>
      <partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</partitionId>
    </GetEntityWithNameAndNamespace>
  </s:Body>
</s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse</a:Action>
    <a:RelatesTo>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
      </GetEntityWithNameAndNamespaceResult>
    </GetEntityWithNameAndNamespaceResponse>
  </s:Body>
</s:Envelope>
```



```

        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
    </GetEntityWithNameAndNamespaceResult>
</GetEntityWithNameAndNamespaceResponse>
</s:Body>
</s:Envelope>

```

## 4.7 Creating Properties for MetadataObjects

This example shows how a user can create **Properties** for an Entity in the metadata store. The concepts can be applied to any other MetadataObject.

The example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to create a **Property** for the **Entity** named Customer in the namespace example.com.
2. To add a custom **Property** named CustomerAlternateName, the protocol client uses the **SaveProperty** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
BDCServiceReference.PropertyStruct myProperty = new
BDCServiceReference.PropertyStruct();
System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Get the entity object using the name and namespace
myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

//Setup the Property object
myProperty.name = "CustomerAlternateName";
myProperty.typeName = "System.String";
myProperty.settingId = null;

//Add the custom propety to the entity object
myClient.SaveProperty(myEntity, myProperty);

```

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveProperty</a:Action>
    <a:MessageID>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
  </s:Body>
</s:Envelope>

```

```

    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
      <propertyStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:needsTypeReflectionResolution>>false</b:needsTypeReflectionResolution>
        <b:wcfMarshallableValue i:nil="true"/>
        <b:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
        <b:wcfMarshallableValueTypeTypeName i:nil="true"/>
        <b:metadataObjectId>0</b:metadataObjectId>
        <b:name>CustomerAlternateName</b:name>
        <b:settingId i:nil="true"/>
        <b:typeName>System.String</b:typeName>
      </propertyStruct>
    </SaveProperty>
  </s:Body>
</s:Envelope>

```

## Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SavePropertyResponse</a:Action>
    <a:RelatesTo>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

## 4.8 Adding Localized Names for Metadata Objects

This example shows how a user can add a localized name for an Entity in the metadata store. The concepts can be applied to any other **Metadata Object**.

The example assumes that the preceding examples have successfully finished and that the user wants to create the localized name for language code identifier (LCID) 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** named Customer in the namespace example.com.
2. The protocol client uses the **SaveLocalizedName** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
```

3. The protocol server checks whether an **Entity** named Customer in the namespace example.com exists in the metadata store.
4. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveLocalizedName</a:Action>
    <a:MessageID>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
```

```

<b:objectVersion>1</b:objectVersion>
<b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
<b:active>true</b:active>
<b:lobSystemId>105</b:lobSystemId>
<b:modelId>0</b:modelId>
<b:namespace>example.com</b:namespace>
<b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
  <c:_Build>0</c:_Build>
  <c:_Major>1</c:_Major>
  <c:_Minor>0</c:_Minor>
  <c:_Revision>0</c:_Revision>
</b:version>
<b:cacheUsage>Default</b:cacheUsage>
<b:description i:nil="true"/>
<b:estimatedInstanceCount>100</b:estimatedInstanceCount>
</metadataObjectStruct>
<lcid>2058</lcid>
<name>Cliente</name>
<settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</SaveLocalizedName>
</s:Body>
</s:Envelope>

```

#### Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse</a:Action>
    <a:RelatesTo>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SaveLocalizedNameResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

## 4.9 Updating an Entity

This example illustrates how a user can update an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** named Customer in the namespace example.com and changes its name from Customer to Buyer.
2. The protocol client uses the **Update** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

```

```

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

// Set the name property to "Buyer"
myEntity.name = "Buyer";

// Call update method.
myClient.Update(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server updates the name attributes of the **Entity** with the supplied value.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      xmlns:a="http://www.w3.org/2005/08/addressing"
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update</a:Action>
    <a:MessageID>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
      xmlns:a="http://www.w3.org/2005/08/addressing"
      s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </a:To>
  </s:Header>
  <s:Body>
    <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
        xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>2</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
    </Update>
  </s:Body>
</s:Envelope>

```

```
</s:Body>
</s:Envelope>
```

#### Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/UpdateResponse</a:Action>
    <a:RelatesTo>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:RelatesTo>
  </s:Header>
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>3</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </UpdateResult>
    </UpdateResponse>
  </s:Body>
</s:Envelope>
```

## 4.10 Deleting an Entity

This example illustrates how a user can delete an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** named Buyer in the namespace example.com.
2. The protocol client uses the **Delete** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
```

```

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer",
myPartition);
myClient.Delete(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server deletes the **Entity** from the metadata store.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Delete</a:Action>
    <a:MessageID>urn:uuid:flee589a-df6b-48d1-83e4-9b28b2282414</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>3</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>

```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/DeleteResponse</a:Action>
    <a:RelatesTo>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:RelatesTo>
  </s:Header>
  <s:Body>
    <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```



## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

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:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns7="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
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:tns8="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
      <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetServiceApplicationId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetServiceApplicationIdResponse"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllPartitionIds"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllPartitionIdsResponse"/>
  </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_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_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_ReadSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:ReadSlicedXml"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ReadSlicedXmlResponse"/>
    </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_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_FaultMessage
">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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"/>
    </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_WriteSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:WriteSlicedXml"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:WriteSlicedXmlResponse"/>
    </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_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_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_PackageFormatExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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_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_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_HaveRights_InputMessage">

```

```

    <wsdl:part name="parameters" element="tns7:HaveRights"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_OutputMessage">
    <wsdl:part name="parameters" element="tns7:HaveRightsResponse"/>
  </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_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_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_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllLocalizedNamesForMetadataObjectStruct"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetAllLocalizedNamesForMetadataObjectStructResponse"/>
  </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_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_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_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_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_GetAllLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllLocalizedNames"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllLocalizedNamesResponse"/>
    </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_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_GetAllLocalizedNames_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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>

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    <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_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllPropertiesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns7:GetAllPropertiesForMetadataObjectStructResponse"/>
    </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_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_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_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_GetAllProperties_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllProperties"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAllPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_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_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_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_SaveLocalizedName_InputMessage">
              <wsdl:part name="parameters" element="tns7:SaveLocalizedName"/>
            </wsdl:message>
            <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage">
              <wsdl:part name="parameters" element="tns7:SaveLocalizedNameResponse"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_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_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_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_SaveLocalizedName_ArgumentNullExceptionFault_FaultMess
age">
    <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:ArgumentException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns7:ClearLocalizedNames"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ClearLocalizedNamesResponse"/>
  </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_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_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">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </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:ArgumentException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">
    <wsdl:part name="parameters" element="tns7:RemoveLocalizedName"/>
  </wsdl:message>

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    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage">
      <wsdl:part name="parameters" element="tns7:RemoveLocalizedNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_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_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_InputMessage">
      <wsdl:part name="parameters" element="tns7:SaveProperty"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_OutputMessage">
      <wsdl:part name="parameters" element="tns7:SavePropertyResponse"/>
    </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_InvalidOperationExceptionFault_FaultMessage">
      <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">
    >

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_ClearProperties_InputMessage">
    <wsdl:part name="parameters" element="tns7:ClearProperties"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ClearPropertiesResponse"/>
  </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_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_ClearProperties_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_RemoveProperty_InputMessage">

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    <wsdl:part name="parameters" element="tns7:RemoveProperty"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns7:RemovePropertyResponse"/>
  </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_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_ArgumentExceptionFault_FaultMessage">
    <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:ArgumentNullException"/>
  </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_GetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAccessControlEntries"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAccessControlEntriesResponse"/>
  </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_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_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_SetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns7:SetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns7:SetAccessControlEntriesResponse"/>
    </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_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>

```

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    <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_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns7:MetadataObjectCreate"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:MetadataObjectCreateResponse"/>
    </wsdl:message>
    <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_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_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>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_InputMessage">
    <wsdl:part name="parameters" element="tns7:Update"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_OutputMessage">
    <wsdl:part name="parameters" element="tns7:UpdateResponse"/>
    </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>

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    <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_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_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_Delete_InputMessage">
    <wsdl:part name="parameters" element="tns7:Delete"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_OutputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteResponse"/>
    </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_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_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_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_MetadataExceptionStateFault_FaultMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage">
  <wsdl:part name="parameters" element="tns7:MetadataObjectMergeXml"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
  <wsdl:part name="parameters" element="tns7:MetadataObjectMergeXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_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_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_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_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_InvalidOperationExceptionFault_
FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFaul
t_FaultMessage">
  <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
  <wsdl:part name="parameters" element="tns7:MetadataObjectReadXml"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage">
  <wsdl:part name="parameters" element="tns7:MetadataObjectReadXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_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_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_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_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6: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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:MetadataObjectWriteXml"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:MetadataObjectWriteXmlResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFault_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_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_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_PackageFormatExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
  </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_CopyAclAcrossChildren_InputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclAcrossChildren"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclAcrossChildrenResponse"/>
  </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_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_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_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_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_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_CopyAclAcrossChildrenForSetting_InputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclAcrossChildrenForSetting"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclAcrossChildrenForSettingResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExce
ptionFault_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_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclToSetting"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns7:CopyAclToSettingResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_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_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_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_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_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_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetCacheInvalidationRecordsSince"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetCacheInvalidationRecordsSinceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptio
nFault_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_GetCacheInvalidationRecordsSince_BdcExceptionStateFaul
t_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_InvalidOperationExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>

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    </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_PackageFormatExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </wsdl:message>
    <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_ImportPackage_InputMessage">
      <wsdl:part name="parameters" element="tns7:ImportPackage"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_OutputMessage">
      <wsdl:part name="parameters" element="tns7:ImportPackageResponse"/>
    </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"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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_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_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_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_ImportPackageWithProgress_InputMessage">
    <wsdl:part name="parameters" element="tns7:ImportPackageWithProgress"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ImportPackageWithProgressResponse"/>
    </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_InvalidOperationExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </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_MetadataExceptionStateFault_
FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_InputMessage">
        <wsdl:part name="parameters" element="tns7:GetImportProgress"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_OutputMessage">
        <wsdl:part name="parameters" element="tns7:GetImportProgressResponse"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_InputMessage">
        <wsdl:part name="parameters" element="tns7:ExportPackage"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_OutputMessage">
        <wsdl:part name="parameters" element="tns7:ExportPackageResponse"/>
    </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_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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_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_InputMessage">

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    <wsdl:part name="parameters" element="tns7:GetModelById"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetModelByIdResponse"/>
  </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_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_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_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_GetModelById_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_GetModelsByName_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetModelsByName"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetModelsByNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_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_GetModelsByName_ArgumentOutOfRangeExceptionFault_Fault
Message">

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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_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_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_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_GetModelByName_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetModelByName"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetModelByNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadadataException"/>
  </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_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_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>

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<wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetModelsByEntityId"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetModelsByEntityIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_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_GetModelsByEntityId_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_GetModelsByEntityId_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_GetModelsByEntityId_MetadataExceptionStateFault_FaultM
essage">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_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_GetModelsByEntityId_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_AddEntityToModel_InputMessage">
  <wsdl:part name="parameters" element="tns7:AddEntityToModel"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage">
  <wsdl:part name="parameters" element="tns7:AddEntityToModelResponse"/>
</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_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_AddEntityToModel_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage">
    <wsdl:part name="parameters" element="tns7:RemoveEntityFromModel"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage">
    <wsdl:part name="parameters" element="tns7:RemoveEntityFromModelResponse"/>
    </wsdl:message>
    <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_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_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_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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>

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    <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_DeleteNoCascade_InputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteNoCascade"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteNoCascadeResponse"/>
    </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_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_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_ModelReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:ModelReadXml"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ModelReadXmlResponse"/>
    </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_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_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_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6: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_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_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessa
ge">
    <wsdl:part name="parameters" element="tns7:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMess
age">
    <wsdl:part name="parameters"
element="tns7:GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"/>
  </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_InvalidOpe
rationExceptionFault_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_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemAllAssembliesBytes"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemAllAssembliesBytesResponse"/>
    </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_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_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_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_ArgumentNullExceptionFa
ult_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_GetLobSystemDataByLobSystem_InputMessage">
      <wsdl:part name="parameters" element="tns7:GetLobSystemDataByLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
      <wsdl:part name="parameters" element="tns7:GetLobSystemDataByLobSystemResponse"/>
    </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_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_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_GetLobSystemDataByLobSystem_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_GetLobSystemDataByLobSystem_MetadataExceptionStateFaul
t_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_SetLobSystemDataByLobSystemId_InputMessage">
      <wsdl:part name="parameters" element="tns7:SetLobSystemDataByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
      <wsdl:part name="parameters" element="tns7:SetLobSystemDataByLobSystemIdResponse"/>
    </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>

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    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage">
    <wsdl:part name="parameters"
element="tns7:GetLobSystemsReferencedByEntitiesAssociatedWithModel"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_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_GetLobSystemsReferencedByEntitiesAssociatedWithModel_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_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_GetLobSystemByName_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemByName"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </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:ArgumentOutOfRangeException"/>
    </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_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_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_GetLobSystemsLikeName_InputMessage">

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    <wsdl:part name="parameters" element="tns7:GetLobSystemsLikeName"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemsLikeNameResponse"/>
  </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_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">
    <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_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_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_GetLobSystemById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemById"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemByIdResponse"/>
  </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_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">

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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_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_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_GetEntityCount_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityCount"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityCountResponse"/>
    </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_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_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_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"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage">
      <wsdl:part name="parameters" element="tns7:GetSystemUtilityTypeNameForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
      <wsdl:part name="parameters"
element="tns7:GetSystemUtilityTypeNameForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </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_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_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_BdcExceptionState
Fault_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_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_GenerateProxyAssemblyForLobSystem_InputMessage">
      <wsdl:part name="parameters" element="tns7:GenerateProxyAssemblyForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage">
      <wsdl:part name="parameters" element="tns7:GenerateProxyAssemblyForLobSystemResponse"/>
    </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>

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    <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_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_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_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_DeleteProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteProxyAssemblyForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteProxyAssemblyForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_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_DeleteProxyAssemblyForLobSystem_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_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemInstancesForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemInstancesForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemInstanceById"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLobSystemInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_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_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_GetDataClassesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetDataClassesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetDataClassesForSystemResponse"/>
    </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_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_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetDataClassById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetDataClassByIdResponse"/>
    </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_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>
    <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">

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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_GetEntitiesReferencedByModelId_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesReferencedByModelId"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesReferencedByModelIdResponse"/>
</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_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_GetEntitiesReferencedByModelId_MetadataExceptionStateF
ault_FaultMessage">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</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_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_GetEntitiesReferencedByModelId_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_GetEntitiesLikeNameAndNamespace_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesLikeNameAndNamespace"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesLikeNameAndNamespaceResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExce
ptionFault_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_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_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityWithNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityWithNameAndNamespaceResponse"/>
    </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_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_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_MetadataExceptionStateFa
ult_FaultMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityWithNameAndNamespaceAndVersion"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
>
  <wsdl:part name="parameters"
element="tns7:GetEntityWithNameAndNamespaceAndVersionResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfRa
ngeExceptionFault_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_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_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>

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<wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesForSystem"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesForSystemResponse"/>
</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_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_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_GetEntitiesForAssociationAndRole_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesForAssociationAndRole"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetEntitiesForAssociationAndRoleResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExcep
tionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFaul
t_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_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_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_SetDefaultActionForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns7:SetDefaultActionForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns7:SetDefaultActionForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionFault_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_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_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>

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    <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_GetEntityNameAndNamespacesForAssociationAndRole_InputM
essage">
    <wsdl:part name="parameters"
element="tns7:GetEntityNameAndNamespacesForAssociationAndRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Outpu
tMessage">
    <wsdl:part name="parameters"
element="tns7:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
    </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_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_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_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">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_InputMessage">

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    <wsdl:part name="parameters" element="tns7:GetEntityById"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetEntityByIdResponse"/>
  </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_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"/>
  </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_EntityCreate_InputMessage">
    <wsdl:part name="parameters" element="tns7:EntityCreate"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:EntityCreateResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_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_EntityCreate_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_EntityCreate_InvalidOperationExceptionFault_FaultMessa
ge">

```

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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_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatException"/>
  </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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_Activate_InputMessage">
    <wsdl:part name="parameters" element="tns7:Activate"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_Activate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:ActivateResponse"/>
  </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_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_PackageFormatExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Activate_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_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_Deactivate_InputMessage">
    <wsdl:part name="parameters" element="tns7:Deactivate"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:DeactivateResponse"/>
  </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_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_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
  </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_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_BulkSwitchActiveOrValidate_InputMessage">
    <wsdl:part name="parameters" element="tns7:BulkSwitchActiveOrValidate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:BulkSwitchActiveOrValidateResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_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_BulkSwitchActiveOrValidate_PackageFormatExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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_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_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_InvalidOperationExceptionFa
ult_FaultMessage">
    <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_GetActionById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionByIdResponse"/>
    </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_ArgumentNullExceptionFault_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_GetActionById_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_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_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_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_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionsForEntity"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionsForEntityResponse"/>
    </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_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_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_GetActionsForEntity_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_GetActionsForEntity_BdcExceptionStateFault_FaultMessag
e">
    <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_GetActionsForEntity_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_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionParameterById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionParameterByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_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_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_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_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionParametersForAction"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetActionParametersForActionResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_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_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_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_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_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_GetIdentifierById_InputMessage">
        <wsdl:part name="parameters" element="tns7:GetIdentifierById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage">
        <wsdl:part name="parameters" element="tns7:GetIdentifierByIdResponse"/>
    </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_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_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_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_GetIdentifiersForEntity_InputMessage">
        <wsdl:part name="parameters" element="tns7:GetIdentifiersForEntity"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage">
        <wsdl:part name="parameters" element="tns7:GetIdentifiersForEntityResponse"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_Fa
ultMessage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
        </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_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_GetIdentifiersForEntity_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_GetIdentifiersForEntity_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_GetIdentifiersForEntity_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_GetMethodById_InputMessage">
                    <wsdl:part name="parameters" element="tns7:GetMethodById"/>

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</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetMethodByIdResponse"/>
</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_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_FaultMessage
">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage">
  <wsdl:part name="parameters" element="tns7:GetMethodsForDataClass"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage">
  <wsdl:part name="parameters" element="tns7:GetMethodsForDataClassResponse"/>
</wsdl:message>
<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_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_GetMethodsForDataClass_ArgumentNullExceptionFault_Faul
tMessage">

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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_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_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_IsMethodInstantiated_InputMessage">
          <wsdl:part name="parameters" element="tns7:IsMethodInstantiated"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
          <wsdl:part name="parameters" element="tns7:IsMethodInstantiatedResponse"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_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_IsMethodInstantiated_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_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_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_IsMethodInstantiated_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_IsMethodInstantiated_MetadataExceptionStateFault_Fault
Message">

```



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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetFilterDescriptorById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetFilterDescriptorByIdResponse"/>
  </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_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_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </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: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_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetFilterDescriptorsForMethod"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetFilterDescriptorsForMethodResponse"/>
  </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>

```

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    <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:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstanceById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </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_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_GetMethodInstanceById_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_GetMethodInstanceById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_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_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstancesForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstancesForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </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_GetMethodInstancesForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstancesForMethod"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetMethodInstancesForMethodResponse"/>
    </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_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionFault_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_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_GetMethodInstancesForMethod_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage">
    <wsdl:part name="parameters" element="tns7:CheckPathInMethodInstances"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns7:CheckPathInMethodInstancesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_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_CheckPathInMethodInstances_MetadataExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_GetParameterById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetParameterById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetParameterByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_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_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_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_GetParameterById_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetParametersForMethod"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetParametersForMethodResponse"/>
    </wsdl:message>

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    <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_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_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_IsParameterReferencedByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns7:IsParameterReferencedByMethodInstance"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:IsParameterReferencedByMethodInstanceResponse"/>
    </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_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_IsParameterReferencedByMethodInstance_MetadataExceptio
nStateFault_FaultMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetTypeReflectorTypeNameForParameter"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetTypeReflectorTypeNameForParameterResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_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_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_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_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_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_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRange
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
_InputMessage">
    <wsdl:part name="parameters"
element="tns7:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"/>
    </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
_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_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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
_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetFieldTypeDescriptorsByMethodInstance"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
>

```



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    <wsdl:part name="parameters"
element="tns7:GetFieldTypeDescriptorsByMethodInstanceResponse"/>
  </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_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_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_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_GetTypeDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetTypeDescriptorById"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetTypeDescriptorByIdResponse"/>
  </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_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_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_GetRootTypeDescriptorForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetRootTypeDescriptorForParameter"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetRootTypeDescriptorForParameterResponse"/>
  </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_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_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_ArgumentExceptionFau
lt_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_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage">
    <wsdl:part name="parameters"
element="tns7:GetTypeDescriptorsByNameAndLevelForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetTypeDescriptorsByNameAndLevelForParameterResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_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_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetChildTypeDescriptorsForTypeDescriptor"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage
">
    <wsdl:part name="parameters"
element="tns7:GetChildTypeDescriptorsForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionS
tateFault_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_InvalidOperat
ionExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetTypeDescriptorsForFilterDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage">
    <wsdl:part name="parameters"
element="tns7:GetTypeDescriptorsForFilterDescriptorResponse"/>
    </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_ArgumentOutOfRan
geExceptionFault_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_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_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_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_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_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetDefaultValuesForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetDefaultValuesForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_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_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_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_GetDefaultValuesForTypeDescriptor_InvalidOperationExce
ptionFault_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_GetDefaultValuesForTypeDescriptor_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_SetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7:SetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns7:SetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_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_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_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_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_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_DeleteDefaultValueForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7>DeleteDefaultValueForTypeDescriptor"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns7:DeleteDefaultValueForTypeDescriptorResponse"/>
    </wsdl:message>
    <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_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_ArgumentOutOfRange
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </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_ArgumentExceptionF
ault_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_GetLevelForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetLevelForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetLevelForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_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_GetLevelForTypeDescriptor_BdcExceptionStateFault_Fault
Message">
    <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_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_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:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorCreate"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </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_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_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>

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    <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_TypeDescriptorMergeXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorMergeXml"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorMergeXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFault
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </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: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: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_PackageFormatExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </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:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorReadXml"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns7:TypeDescriptorReadXmlResponse"/>
    </wsdl:message>

```

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    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_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_TypeDescriptorReadXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns6="Microsoft.SharePoint.BusinessData" name="detail"
element="tns6:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_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_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationById"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <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>

```

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <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_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForEntityAndRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForEntityAndRoleResponse"/>
    </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_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_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_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFau
lt_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_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_GetAssociationsForDataClass_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_GetAssociationsForDataClass_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_GetAssociationsForDataClass_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_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_GetAssociationsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationsForMethodResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault_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_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_GetAssociationsForMethod_InvalidOperationExceptionFault_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_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_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_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationMembersInRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationMembersInRoleResponse"/>
    </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_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_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_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </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_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetThrottlingRules"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetThrottlingRulesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_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_GetThrottlingRules_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_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_AddThrottlingRule_InputMessage">
    <wsdl:part name="parameters" element="tns7:AddThrottlingRule"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage">
    <wsdl:part name="parameters" element="tns7:AddThrottlingRuleResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_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_AddThrottlingRule_ArgumentExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_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_AddThrottlingRule_AccessDeniedExceptionFault_FaultMess
age">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage">
    <wsdl:part name="parameters" element="tns7:RemoveThrottlingRule"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage">
    <wsdl:part name="parameters" element="tns7:RemoveThrottlingRuleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_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_RemoveThrottlingRule_AccessDeniedExceptionFault_FaultM
essage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_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_RemoveThrottlingRule_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_GetAssociationGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationGroupById"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationGroupByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_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_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_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationGroupsForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetAssociationGroupsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_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_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_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_GetAssociationGroupsForEntity_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </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_GetAssociationReferencesForAssociationGroup_InputMessa
ge">
    <wsdl:part name="parameters" element="tns7:GetAssociationReferencesForAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessa
ge">
    <wsdl:part name="parameters"
element="tns7:GetAssociationReferencesForAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_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_GetAssociationReferencesForAssociationGroup_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_GetAssociationReferencesForAssociationGroup_InvalidOpe
rationExceptionFault_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_GetAssociationReferencesForAssociationGroup_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage
">
    <wsdl:part name="parameters" element="tns7:AddAssociationReferenceToAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessag
e">
    <wsdl:part name="parameters"
element="tns7:AddAssociationReferenceToAssociationGroupResponse"/>
    </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_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_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_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_ArgumentNull
ExceptionFault_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_DeleteAssociationReferenceFromAssociationGroup_InputM
essage">
    <wsdl:part name="parameters"
element="tns7:DeleteAssociationReferenceFromAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputM
essage">
    <wsdl:part name="parameters"
element="tns7:DeleteAssociationReferenceFromAssociationGroupResponse"/>
    </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_Argumen
tExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <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_Metadat
aExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage">
    <wsdl:part name="parameters" element="tns7:GetXmlSchemaForView"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage">
    <wsdl:part name="parameters" element="tns7:GetXmlSchemaForViewResponse"/>
    </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>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_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_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:portType name="BusinessDataCatalogSharedService">
    <wsdl:operation name="GetServiceApplicationId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId"
message="tns7:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPartitionIds">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault
_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ReadSlicedXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXml"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlResponse"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="WriteSlicedXml">

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        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Faul
tMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMes
sage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Fau
ltMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFaul
t_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMes
sage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Faul
tMessage"/>
        </wsdl:operation>
        <wsdl:operation name="HaveRights">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights"
message="tns7:BusinessDataCatalogSharedService_HaveRights_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns7:BusinessDataCatalogSharedService_HaveRights_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"

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message="tns7:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeException
onFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputM
essage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"

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message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Output
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExc
eptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invali
dOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metada
taExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntOutOfRangeExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllProperties"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesResponse"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_F
aultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SaveLocalizedName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedName"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ClearLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNames"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesResponse"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveLocalizedName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedName"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameResponse"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SaveProperty">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ClearProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
  </wsdl:operation>

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edService/ClearPropertiesResponse"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMes
sage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="RemoveProperty">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveProperty"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyResponse"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMes
sage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntries"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesResponse"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault
_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntries"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/SetAccessControlEntriesResponse"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault
_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreate"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateResponse"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationException
Fault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fa
ultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFaul
t_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="Update">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Update" message="tns7:BusinessDataCatalogSharedService_Update_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateResponse"
message="tns7:BusinessDataCatalogSharedService_Update_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultM
essage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMes
sage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessag
e"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage
"/>
</wsdl:operation>
<wsdl:operation name="Delete">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns7:BusinessDataCatalogSharedService_Delete_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse"
message="tns7:BusinessDataCatalogSharedService_Delete_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"/>

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        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMes
sage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage
"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultM
essage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFa
ult_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectWriteXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildren">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_F
aultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildrenForSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullEx
ceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="CopyAclToSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSetting"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultM
essage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFaul
t_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_F
aultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultM
essage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fa
ultMessage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
                    </wsdl:operation>
                    <wsdl:operation name="GetCacheInvalidationRecordsSince">
                      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
/>
                        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage
"/>
                          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionS
tateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperat
ionExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcep
tionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormat
ExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackage"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"

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name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackageWithProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetImportProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
message="tns7:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
message="tns7:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"/>
    </wsdl:operation>
  <wsdl:operation name="ExportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns7:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_F
aultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelById"
message="tns7:BusinessDataCatalogSharedService_GetModelById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeException_Fault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelsByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fa
ultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMe
ssage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMes
sage"/>
  </wsdl:operation>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Faul
tMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByEntityId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault
_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddEntityToModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelResponse"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFaul
t_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveEntityFromModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModel"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelResponse"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_F
aultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteNoCascade">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_Fau
ltMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ModelReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_Fa
ultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_In
putMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ou
tputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bd
cExceptionStateFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_In
validOperationExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Me
tadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemAllAssembliesBytes">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExc
eptionFault_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="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionF
ault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetLobSystemDataByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExce
ptionFault_FaultMessage"/>
  </wsdl:operation>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptio
nStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptio
nFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityCount">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCount"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMess
age"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"

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name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentO
utOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadateE
xceptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOp
erationExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentN
ullExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcept
ionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentE
xceptionFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessag
e"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessag
e"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExcept
ionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadateExce
ptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNull
ExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"/
>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullEx
ceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionSt
ateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperati
onExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage
"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNull
ExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcException
StateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExce
ptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExce
ptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstanceById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStat
eFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullException
Fault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetDataClassesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionF
ault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesReferencedByModelId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionSta
teFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExcepti
onStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"/
>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSt
ateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperati
onExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

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message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityWithNameAndNamespace">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_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="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputM
essage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Output
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExc
eptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invali
dOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metada
taExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystem"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fa
ultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperat
ionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcep
tionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcep
tionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullE
xceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetDefaultActionForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptio
nFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetEntityById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityById"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMess
age"/>

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        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_Fault
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
        </wsdl:operation>
        <wsdl:operation name="EntityCreate">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessa
ge"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fa
ultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_Fault
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessa
ge"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultM
essage"/>
        </wsdl:operation>
        <wsdl:operation name="Activate">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Activate" message="tns7:BusinessDataCatalogSharedService_Activate_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns7:BusinessDataCatalogSharedService_Activate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessa
ge"/>
    </wsdl:operation>
    <wsdl:operation name="Deactivate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Deactivate"
message="tns7:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateResponse"
message="tns7:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_Fa
ultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage
"/>
  </wsdl:operation>
  <wsdl:operation name="BulkSwitchActiveOrValidate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidate"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateResponse"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExc
eptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionSt
ateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionById"
message="tns7:BusinessDataCatalogSharedService_GetActionById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetActionById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeException
nFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterById"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7: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="tns7: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="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionResponse"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullException"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationException
ionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperation
ExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptio
nFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionSta
teFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetMethodInstancesForMethodResponse"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="CheckPathInMethodInstances">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesResponse"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptio
nStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExcepti
onFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetParameterById">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultM
essage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultM
essage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fa
ultMessage"/>
  </wsdl:operation>
<wsdl:operation name="GetParametersForMethod">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethod"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeException
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFa
ult_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="IsParameterReferencedByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMes
sage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidO
perationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Metadata
ExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
NullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
OutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcep
tionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMess
age"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterResponse"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadateE
xceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentN
ullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentO
utOutOfRangeExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InvalidOperationExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputM
essage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Output
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argume
ntExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"

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message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExc
ptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metada
taExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argume
ntNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argume
ntOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invali
dOperationExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFau
lt_FaultMessage"/>
  </wsdl:operation>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutofRangeExcept
ionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetRootTypeDescriptorForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage
"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExce
ptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptio
nStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNull
ExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"

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message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_0
outputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_B
dcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_M
etadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Input
Message"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Outpu
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argum
entOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcEx
ceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShared

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edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
NullExceptionFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage
"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessag
e"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExce
ptionFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage
"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessag
e"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOpe
rationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExcepci
onStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLevelForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_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="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateResponse"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionExcepci
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFau
lt_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="TypeDescriptorMergeXml">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXml"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlResponse"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFau
lt_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptio
nsStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="TypeDescriptorReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSt
ateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_F
aultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationById"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForEntityAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationsForEntityAndRoleResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullEx
ceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcept
ionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSt
ateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperati
onExceptionFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetAssociationsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetAssociationMembersInRole">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperatio
nExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptio
nStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetThrottlingRules">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRules"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesResponse"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_Faul
tMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_Faul
tMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddThrottlingRule">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRule"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleResponse"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveThrottlingRule">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRule"
message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleResponse"
message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperation
ExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptio
nStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExce
ptionFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
putMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ou
tputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Me
tadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bd
cExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroupArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns7: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="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewResponse"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeException
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns7:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>
</wsdl:portType>
  <wsdl:binding name="DefaultBinding_BusinessDataCatalogSharedService"
type="tns7:BusinessDataCatalogSharedService">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="GetServiceApplicationId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetAllPartitionIds" style="document"/>
  <wsdl:input>
  <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
  <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="AccessDeniedExceptionFault">
  <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>

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</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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" 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="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="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">

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    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="HaveRights">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/HaveRights" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault 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="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
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  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="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:fault name="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>
<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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">

```

```

    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```



```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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</wsdl:fault>
</wsdl:operation>
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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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
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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:operation>
<wsdl:operation name="ClearProperties">
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soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearProperties" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="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=""/>
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<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
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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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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: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="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl: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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Delete" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

    <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="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
      <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectReadXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectReadXml" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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">

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    <soap:fault use="literal" name="PackageFormatExceptionStateFault" 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:operation>
<wsdl:operation name="MetadataObjectWriteXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectWriteXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="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="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>

```

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</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclToSetting">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclToSetting" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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>
<wsdl:operation name="GetCacheInvalidationRecordsSince">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetCacheInvalidationRecordsSince" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">

```



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    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" 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="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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: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: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="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
      <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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: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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" 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="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" 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="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" 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: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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <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:operation>
  <wsdl:operation name="RemoveEntityFromModel">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/RemoveEntityFromModel" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" 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: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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

</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="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>

```

```

    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="SetLobSystemDataByLobSystemId">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/SetLobSystemDataByLobSystemId" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```



```

</wsdl:operation>
<wsdl:operation name="GetLobSystemByName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemByName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemsLikeName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsLikeName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>

```

```

    <wsdl:operation name="GetLobSystemById">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemById" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="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="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" 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="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstancesForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstancesForLobSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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: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="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" 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: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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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>
<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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespace">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityWithNameAndNamespace" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" 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: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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForSystem" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" 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: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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" 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>
  <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="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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>
  <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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>

```

```

    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl: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="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" 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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
      <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">

```

```

    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" 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="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" 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>
<wsdl:fault name="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:operation name="GetActionParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParameterById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParametersForAction">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParametersForAction" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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>

```

```

<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifierById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifierById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifiersForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodsForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodsForDataClass" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="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="IsMethodInstantiated">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsMethodInstantiated" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" 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="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="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="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="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="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="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="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="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="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<wsdl:operation name="GetTypeReflectorTypeNameForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeReflectorTypeNameForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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>
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFieldTypeDescriptorsByMethodInstance" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>

```

```

<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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>
<wsdl:operation name="GetRootTypeDescriptorForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:operation>
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsByNameAndLevelForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" 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:operation>
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```



```

</wsdl:output>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsForFilterDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDefaultValuesForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="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="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultValuesForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteDefaultValueForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

```

    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" 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:operation>
<wsdl:operation name="GetLevelForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLevelForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorCreate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorCreate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorMergeXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="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:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" 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="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForEntityAndRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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:operation name="GetAssociationsForDataClass">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForDataClass" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" 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:operation>
<wsdl:operation name="GetAssociationsForMethod">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForMethod" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

</wsdl:output>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="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="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="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>
<wsdl:operation name="GetThrottlingRules">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetThrottlingRules" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="AccessDeniedExceptionFault">
  <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddThrottlingRule">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddThrottlingRule" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" 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="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveThrottlingRule">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveThrottlingRule" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <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: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="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupsForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="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="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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: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="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" 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="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" 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="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="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
</wsdl:binding>

```

</wsdl:definitions>

## 7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	tns	7.1
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	tns1	7.2
http://www.microsoft.com/Office/2009/BusinessDataCatalog	tns7	7.3
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	tns2	7.4
Microsoft.BusinessData.SharePoint	tns3	7.5
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific	tns4	7.6
http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants	tns5	7.7
Microsoft.SharePoint.BusinessData	tns6	7.8
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q10	7.9
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.10
http://schemas.datacontract.org/2004/07/System	q1	7.11

For ease of implementation, the following sections provide the full XML schema for this protocol.

### 7.1

#### http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema

```
<?xml version="1.0"?>
<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:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="BdcExceptionState">
    <xs:sequence>
      <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="BdcExceptionState" nillable="true" type="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: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: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="FilterType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Comparison"/>
            <xs:enumeration value="LastId"/>
            <xs:enumeration value="Limit"/>
        </xs:restriction>
    </xs:simpleType>

```

```

    <xs:enumeration value="PageNumber"/>
    <xs:enumeration value="Password"/>
    <xs:enumeration value="SsoTicket"/>
    <xs:enumeration value="Timestamp"/>
    <xs:enumeration value="UserContext"/>
    <xs:enumeration value="Username"/>
    <xs:enumeration value="UserProfile"/>
    <xs:enumeration value="Wildcard"/>
    <xs:enumeration value="Input"/>
    <xs:enumeration value="Output"/>
    <xs:enumeration value="InputOutput"/>
    <xs:enumeration value="Batching"/>
    <xs:enumeration value="BatchingTermination"/>
    <xs:enumeration value="UserCulture"/>
    <xs:enumeration value="ActivityId"/>
    <xs:enumeration value="Sorting"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
<xs:simpleType name="MethodInstanceType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Finder"/>
    <xs:enumeration value="SpecificFinder"/>
    <xs:enumeration value="GenericInvoker"/>
    <xs:enumeration value="IdEnumerator"/>
    <xs:enumeration value="Scalar"/>
    <xs:enumeration value="AccessChecker"/>
    <xs:enumeration value="Creator"/>
    <xs:enumeration value="Updater"/>
    <xs:enumeration value="Deleter"/>
    <xs:enumeration value="ChangedIdEnumerator"/>
    <xs:enumeration value="DeletedIdEnumerator"/>
    <xs:enumeration value="AssociationNavigator"/>
    <xs:enumeration value="Associator"/>
    <xs:enumeration value="Disassociator"/>
    <xs:enumeration value="StreamAccessor"/>
    <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
    <xs:enumeration value="BulkSpecificFinder"/>
    <xs:enumeration value="BulkAssociatedIdEnumerator"/>
    <xs:enumeration value="BulkAssociationNavigator"/>
    <xs:enumeration value="BulkIdEnumerator"/>
    <xs:enumeration value="EventSubscriber"/>
    <xs:enumeration value="EventUnsubscriber"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
<xs:simpleType name="SystemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Database"/>
    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="DotNetAssembly"/>
    <xs:enumeration value="OData"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
<xs: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="TypeDescriptorFlags">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="CreatorField"/>
        <xs:enumeration value="UpdaterField"/>
        <xs:enumeration value="PreUpdaterField"/>
        <xs:enumeration value="IsCollection"/>
        <xs:enumeration value="ReadOnly"/>
        <xs:enumeration value="Significant"/>
        <xs:enumeration value="IsSortInput"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
</xs:schema>

```

### 7.3 <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: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:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" />
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" />
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants" />
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" />
  <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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q10: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6: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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="tns6:ArrayOfLocalizedNameStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="tns6:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:complexType>
  </xs:element>
  <xs:element name="RemoveLocalizedName">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAccessControlEntriesResult" nillable="true"
type="tns6:ArrayOfAccessControlEntryStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:MetadataObjectStruct"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="tns6:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Update">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>

```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Delete">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns6: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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfString"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetCacheInvalidationRecordsSinceResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



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        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="tns6:ModelStruct"/>
            <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="tns6:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByEntityId">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByEntityIdResponse">

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```

    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="tns6:ArrayOfModelStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddEntityToModel">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns6:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteNoCascadeResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelReadXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="tns6: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>

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    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ModelReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="tns6:ModelStruct"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemAllAssembliesBytesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q10:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemDataByLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6: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:sequence>
  </xs:complexType>
  </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:sequence>
  </xs:complexType>
  </xs:element>
xmlns:tns5="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="queryMode"
type="tns5: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="tns6:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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```

</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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSystemUtilityTypeNameForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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    </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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteProxyAssemblyForLobSystemResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemInstancesForLobSystem">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemInstancesForLobSystemResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="tns6: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"/>

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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="GetLobSystemInstanceByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="tns6:DataClassStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelId">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
            <xs:element
xmlns:tns5="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="mode"
type="tns5: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>

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    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesLikeNameAndNamespaceResult" nillable="true"
type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="tns6: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:ql="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="ql: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>

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    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForAssociationAndRoleResult" nillable="true"
type="tns6:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6: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>

```

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</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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="namespaces" nillable="true" type="q10:ArrayOfstring"/>
      <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="names" nillable="true" type="q10: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EntityCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:EntityStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns6:LobSystemStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EntityCreateResponse">
  <xs:complexType>
    <xs:sequence>

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        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Activate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ActivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="tns6:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Deactivate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeactivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="tns6:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns6:ArrayOfEntityStruct"/>
            <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns6:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="tns6:ArrayOfActivationErrorRecordStruct"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns6:ArrayOfEntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionById">

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    <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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="tns6:ActionStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionsForEntity">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionsForEntityResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="tns6:ArrayOfActionStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParameterById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParameterByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="tns6:ActionParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParametersForAction">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParametersForActionResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="tns6:ArrayOfActionParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifierById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifierByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="tns6:ArrayOfIdentifierStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodByIdResponse">
    <xs:complexType>
      <xs:sequence>

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        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="tns6:ArrayOfMethodStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiated">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiatedResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="tns6:FilterDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethod">
    <xs:complexType>
        <xs:sequence>

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        <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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="tns6:MethodInstanceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClass">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClassResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="tns6:ArrayOfMethodInstanceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```



```

<xs:element name="GetMethodInstancesForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="tns6:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstances">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="dottedPath" nillable="true" type="xs:string"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="type" type="tns1:MethodInstanceType"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstancesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="tns6:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethodResponse">
  <xs:complexType>
    <xs:sequence>

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        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="tns6:ArrayOfParameterStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstance">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
type="tns6:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstance">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>

```

```

        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns6:EntityStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="tns6:ArrayOfPropertyDescriptorStruct"/>
        </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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="tns6:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="level" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>

```

```

</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="tns6:ArrayOfPropertyDescriptorStruct"/>
    </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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="tns6:ArrayOfPropertyDescriptorStruct"/>
    </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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="tns6:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDefaultValuesForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDefaultValuesForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="tns6:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetDefaultValuesForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="defaultValueStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns6:TypeDescriptorStruct"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorMergeXmlResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
            <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns6:PackageContents"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns6:ParameterStruct"/>
            <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="tns6:TypeDescriptorStruct"/>
            <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q10:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

    </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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="tns6:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetThrottlingRules">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetThrottlingRulesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetThrottlingRulesResult" nillable="true" type="tns6:ArrayOfSafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddThrottlingRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="tns6:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddThrottlingRuleResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>

```



```

</xs:element>
<xs:element name="RemoveThrottlingRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="tns6:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveThrottlingRuleResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="tns6:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="tns6:AssociationGroupStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns6:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="tns6:AssociationGroupStruct"/>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns6:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteAssociationReferenceFromAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns6: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:tns6="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="tns6:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetXmlSchemaForViewResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>

```

```

    </xs:element>
</xs:schema>

```

## 7.4 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema

```

<?xml version="1.0"?>
<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>

```

## 7.5 [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>

```

## 7.6

### [http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecificSchema)

```
<?xml version="1.0"?>
<xs:schema
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="ThrottleScope">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Global"/>
      <xs:enumeration value="Database"/>
      <xs:enumeration value="WebService"/>
      <xs:enumeration value="Wcf"/>
      <xs:enumeration value="Custom"/>
      <xs:enumeration value="OData"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ThrottleScope" nillable="true" type="tns4:ThrottleScope"/>
  <xs:simpleType name="ThrottleType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None"/>
      <xs:enumeration value="Items"/>
      <xs:enumeration value="Size"/>
      <xs:enumeration value="Connections"/>
      <xs:enumeration value="Timeout"/>
      <xs:enumeration value="MetadataSize"/>
      <xs:enumeration value="ModelSize"/>
      <xs:enumeration value="MaxNumberOfModels"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ThrottleType" nillable="true" type="tns4:ThrottleType"/>
</xs:schema>
```

## 7.7

### [http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.ConstantsSchema)

```
<?xml version="1.0"?>
<xs:schema
xmlns:tns5="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllLobSystemsInModel"/>
      <xs:enumeration value="OwnedLobSystemsInModel"/>
      <xs:enumeration value="SharedLobSystemsInModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
type="tns5:LobSystemConstants.LobSystemsInModelQuery"/>
  <xs:simpleType name="EntityConstants.EntitiesInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllEntitiesInModel"/>
    </xs:restriction>
  </xs:simpleType>
```

```

    <xs:enumeration value="OwnedEntitiesInModel"/>
    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true"
type="tns5:EntityConstants.EntitiesInModelQuery"/>
</xs:schema>

```

## 7.8 Microsoft.SharePoint.BusinessData Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:tns6="Microsoft.SharePoint.BusinessData"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="Microsoft.SharePoint"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
  <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="tns6:ConcurrentModificationExceptionState"/>
  <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="tns6:ExceededMetadataObjectLimitExceptionState"/>
  <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="tns6:MetadataObjectNotFoundExceptionState"/>
    <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="tns6:InvalidMetadataPropertyExceptionState"/>
    <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="tns6:DuplicateMetadataObjectExceptionState"/>
    <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="tns6:InvalidMetadataObjectExceptionState"/>
    <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:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="PackageContents" nillable="true" type="tns6: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="tns6:MetadataObjectStruct"/>
<xs:complexType name="ActionParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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:complexType>
<xs:element name="ActionParameterStruct" nillable="true"
type="tns6:ActionParameterStruct"/>
<xs:complexType name="FilterDescriptorStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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:complexType>
<xs:element name="FilterDescriptorStruct" nillable="true"
type="tns6:FilterDescriptorStruct"/>
<xs:complexType name="IdentifierStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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:complexType>
<xs:element name="IdentifierStruct" nillable="true" type="tns6:IdentifierStruct"/>
<xs:complexType name="DataClassStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexType>

```

```

        <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>
<xs:element name="DataClassStruct" nillable="true" type="tns6:DataClassStruct"/>
<xs:complexType name="EntityStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns6: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="tns6:EntityStruct"/>
<xs:complexType name="LobSystemInstanceStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns6: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="tns6:LobSystemInstanceStruct"/>
<xs:complexType name="ActionStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns6: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="tns6:ActionStruct"/>
<xs:complexType name="AdministrationMetadataCatalogStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns6:MetadataObjectStruct">
            <xs:sequence/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AdministrationMetadataCatalogStruct" nillable="true"
type="tns6:AdministrationMetadataCatalogStruct"/>
<xs:complexType name="AssociationStruct">
    <xs:complexContent mixed="false">

```



```

    <xs:extension base="tns6: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:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q10:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationStruct" nillable="true" type="tns6:AssociationStruct"/>
<xs:complexType name="MethodInstanceStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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="returnTypeId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MethodInstanceStruct" nillable="true" type="tns6:MethodInstanceStruct"/>
<xs:complexType name="AssociationGroupStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q10:ArrayOfstring"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q10:ArrayOfunsignedInt"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q10: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="tns6:AssociationGroupStruct"/>
<xs:complexType name="LobSystemStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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="tns6:LobSystemStruct"/>
<xs:complexType name="MethodStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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="tns6:MethodStruct"/>
<xs:complexType name="ModelStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ModelStruct" nillable="true" type="tns6:ModelStruct"/>
<xs:complexType name="ParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6: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="tns6:ParameterStruct"/>
<xs:complexType name="TypeDescriptorStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceEntityNamespace"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
        <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
  <xs: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="tns6:TypeDescriptorStruct"/>
<xs:complexType name="PackageFormatExceptionState">
    <xs:sequence>
        <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
        <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q10: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="tns6:PackageFormatExceptionState"/>
<xs:complexType name="ArrayOfLocalizedNameStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="tns6:LocalizedNameStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLocalizedNameStruct" nillable="true"
type="tns6: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="v1ue" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="LocalizedNameStruct" nillable="true" type="tns6:LocalizedNameStruct"/>
<xs:complexType name="ArrayOfPropertyStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="tns6:PropertyStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfPropertyStruct" nillable="true"
type="tns6:ArrayOfPropertyStruct"/>
<xs:complexType name="PropertyStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns6: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:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="PropertyStruct" nillable="true" type="tns6: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="tns6:ComplexValueStruct"/>
<xs:complexType name="DefaultValueStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns6:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DefaultValueStruct" nillable="true" type="tns6:DefaultValueStruct"/>
<xs:complexType name="ArrayOfAccessControlEntryStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="tns6:AccessControlEntryStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAccessControlEntryStruct" nillable="true"
type="tns6: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="tns6:AccessControlEntryStruct"/>
<xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="tns6:CacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true"
type="tns6:ArrayOfCacheInvalidationRecordStruct"/>
<xs:complexType name="CacheInvalidationRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
  </xs:sequence>
</xs:complexType>

```

```

        <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="tns6:CacheInvalidationRecordStruct"/>
<xs:complexType name="ArrayOfModelStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="tns6:ModelStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfModelStruct" nillable="true" type="tns6:ArrayOfModelStruct"/>
<xs:complexType name="ArrayOfLobSystemStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="tns6:LobSystemStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLobSystemStruct" nillable="true"
type="tns6:ArrayOfLobSystemStruct"/>
<xs:complexType name="ArrayOfLobSystemInstanceStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="tns6:LobSystemInstanceStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true"
type="tns6:ArrayOfLobSystemInstanceStruct"/>
<xs:complexType name="ArrayOfDataClassStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="tns6:DataClassStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDataClassStruct" nillable="true"
type="tns6:ArrayOfDataClassStruct"/>
<xs:complexType name="ArrayOfEntityStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="tns6:EntityStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEntityStruct" nillable="true" type="tns6:ArrayOfEntityStruct"/>
<xs:complexType name="ArrayOfActivationErrorRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="tns6:ActivationErrorRecordStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true"
type="tns6: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:sequence>
</xs:complexType>

```

```

        <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="tns6:ActivationErrorRecordStruct"/>
<xs:complexType name="ArrayOfActionStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="tns6:ActionStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionStruct" nillable="true" type="tns6:ArrayOfActionStruct"/>
<xs:complexType name="ArrayOfActionParameterStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="tns6:ActionParameterStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionParameterStruct" nillable="true"
type="tns6:ArrayOfActionParameterStruct"/>
<xs:complexType name="ArrayOfIdentifierStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="tns6:IdentifierStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfIdentifierStruct" nillable="true"
type="tns6:ArrayOfIdentifierStruct"/>
<xs:complexType name="ArrayOfMethodStruct">
    <xs:sequence>

```

```

        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="tns6:MethodStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMethodStruct" nillable="true" type="tns6:ArrayOfMethodStruct"/>
<xs:complexType name="ArrayOfFilterDescriptorStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="tns6:FilterDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfFilterDescriptorStruct" nillable="true"
type="tns6:ArrayOfFilterDescriptorStruct"/>
<xs:complexType name="ArrayOfMethodInstanceStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="tns6:MethodInstanceStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMethodInstanceStruct" nillable="true"
type="tns6:ArrayOfMethodInstanceStruct"/>
<xs:complexType name="ArrayOfParameterStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="tns6:ParameterStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfParameterStruct" nillable="true"
type="tns6:ArrayOfParameterStruct"/>
<xs:complexType name="ArrayOfTypeDescriptorStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="tns6:TypeDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfTypeDescriptorStruct" nillable="true"
type="tns6:ArrayOfTypeDescriptorStruct"/>
<xs:complexType name="ArrayOfDefaultValueStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct"
nillable="true" type="tns6:DefaultValueStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDefaultValueStruct" nillable="true"
type="tns6:ArrayOfDefaultValueStruct"/>
<xs:complexType name="ArrayOfAssociationStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct"
nillable="true" type="tns6:AssociationStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAssociationStruct" nillable="true"
type="tns6:ArrayOfAssociationStruct"/>
<xs:complexType name="ArrayOfAssociationMemberStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="tns6:AssociationMemberStruct"/>
    </xs:sequence>
</xs:complexType>

```

```

<xs:element name="ArrayOfAssociationMemberStruct" nillable="true"
type="tns6: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="tns6:AssociationMemberStruct"/>
  <xs:complexType name="ArrayOfSafetyNetStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true"
type="tns6:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfSafetyNetStruct" nillable="true"
type="tns6:ArrayOfSafetyNetStruct"/>
  <xs:complexType name="SafetyNetStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
      <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
      <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
      <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleScope" type="tns4:ThrottleScope"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleType" type="tns4:ThrottleType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SafetyNetStruct" nillable="true" type="tns6:SafetyNetStruct"/>
  <xs:complexType name="ArrayOfAssociationGroupStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns6:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationGroupStruct" nillable="true"
type="tns6:ArrayOfAssociationGroupStruct"/>
  <xs:complexType name="ArrayOfAssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="tns6:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationReferenceStruct" nillable="true"
type="tns6: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:sequence>
  </xs:complexType>

```



```

    <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="tns6:AssociationReferenceStruct"/>
</xs:schema>

```

## 7.9 <http://schemas.microsoft.com/2003/10/Serialization/Arrays> Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:q10="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="q10: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="q10: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="q10: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="q10:ArrayOfbase64Binary"/>
</xs:schema>

```

## 7.10 <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>

```

## 7.11 <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="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: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: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 SharePoint Foundation 2010
- 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** value be greater than or equal to zero is enforced.

[<3> Section 2.2.4.4:](#) In SharePoint Foundation 2010, this restriction is not enforced.

[<4> Section 2.2.4.21:](#) SharePoint Foundation 2010 always sets the values to zero on return.

[<5> Section 2.2.4.22:](#) SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **\_associationName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **\_associationName**.

[<6> Section 2.2.4.22:](#) SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **\_entityName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **\_entityName**.

[<7> Section 2.2.4.22:](#) SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **\_entityNamespace** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **\_entityNamespace**.

[<8> Section 2.2.4.41:](#) In SharePoint Foundation 2010, this can be other values.

[<9> Section 2.2.4.51:](#) SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

[<10> Section 2.2.4.54:](#) In SharePoint Foundation 2010, when a new **TypeDescriptor** is created with the **MetadataObjectCreate** operation, the server always sets this element to NULL on return.

**SerializedRules** can be set to a non-null value using the **Update** operation or the **MetadataObjectReadXml** operation.

<11> [Section 2.2.4.54](#): The culture names used by SharePoint Foundation 2010 are as specified in [\[MSDN-SharePointSDK\]](#).

<12> [Section 2.2.4.54](#): SharePoint Foundation 2010 requires this data type to conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and to be understood by the .NET Framework.

<13> [Section 2.2.4.54](#): SharePoint Foundation 2010 requires that the data type to conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<14> [Section 2.2.4.54](#): The SharePoint Foundation 2010 module that performs the mapping of value of the **typeName** element to data types requires the value of the **typeName** element to be in the following format expressed in ABNF, as specified in [\[RFC5234\]](#):

```
Value = TypeName *1(%x2C BusinessLogicModule)
BusinessLogicModule = FullAssemblyName / LobSystemName
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

**TypeName**: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework. The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

**LobSystemName**: The name of the **LobSystem** that contains the **TypeDescriptor**.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the **LobSystem** that contains the **TypeDescriptor**. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from 0 through 65,535.
System.UInt32	A number in the range from 0 through 4,294,967,295.
System.UInt64	A number in the range from 0 through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. through 11:59:59 PM,

Value	Description
	December 31, 9999 A.D., with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from -3.402823e38 through 3.402823e38.
System.Double	A double-precision number in the range from -1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN.
System.Decimal	A number in the range from -79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from 0 through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID.
System.Boolean	A bit.
System.Uri	A <b>Uniform Resource Locator (URL)</b> .

<15> [Section 2.2.5.9](#): A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<16> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from untrusted sources.

<17> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from highly-trusted sources.

<18> [Section 3.1.4](#): In SharePoint Foundation 2010 implementation, the protocol client specifies the last known values for these elements. The protocol server uses the specified values to construct error messages and other informational messages.

<19> [Section 3.1.4](#): In SharePoint Foundation 2010, the implementation-specific maximum value is 2147483646.

<20> [Section 3.1.4](#): In SharePoint Foundation 2010, when the specific **metadataObject** name or namespace field is updated, the object version is incremented by 2. When the **Entity** name or namespace is updated, the server will return an **Entity** object with the version incremented by 1, but the **Entity** object version is incremented by 2 in the server database. If the **BulkSwitchActiveOrValidate** operation is called to make an **entity** active and the specific **entity** is already active, its object version will be incremented by 2.

<21> [Section 3.1.4](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<22> [Section 3.1.4](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<23> [Section 3.1.4:](#) In SharePoint Foundation 2010, this operation always returns zero **TypeDescriptors**.

<24> [Section 3.1.4:](#) The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.

<25> [Section 3.1.4:](#) A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

<26> [Section 3.1.4:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

<27> [Section 3.1.4:](#) A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<28> [Section 3.1.4:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

<29> [Section 3.1.4:](#) SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<30> [Section 3.1.4:](#) In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

<31> [Section 3.1.4:](#) In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

<32> [Section 3.1.4:](#) A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<33> [Section 3.1.4:](#) SharePoint Foundation 2010 does not enforce the specified MetadataObject to be a Model or an LobSystem.

<34> [Section 3.1.4.2.2.2:](#) In SharePoint Foundation 2010, when the **AddAssociationReferenceToAssociationGroup** operation completes successfully, the returned **associationGroupId** element of the **associationReference** structure is the same as the returned **id** element of the **associationReference** structure. However, the **associationGroupId** element of the **associationReference** structure stored on the server is the same as the **id** element of the **AssociationGroup** that contains this **AssociationReference** structure.

<35> [Section 3.1.4.5.2.1:](#) In SharePoint Foundation 2010, when the **BulkSwitchActiveOrValidate** operation cannot be performed because the value of the validate element is set to "false" and the protocol server encountered reference errors (as specified in section 3.1.4.5.3.2) when performing this operation, the active fields of the **Entities** returned by the **BulkSwitchActiveOrValidate** operation are updated to TRUE, but the active fields of the **Entities** stored on the server are not changed by this operation.

<36> [Section 3.1.4.5.3.2:](#) SharePoint Foundation 2010 does not return this error for this condition.

<37> [Section 3.1.4.5.3.2:](#) In this case, SharePoint Foundation 2010 does not return an error.

<38> [Section 3.1.4.5.3.2:](#) In this case, SharePoint Foundation 2010 does not return an error.

<39> [Section 3.1.4.13](#): In SharePoint Foundation 2010, the **Method** will not be deleted when this operation does not execute successfully and the server throws a **ConcurrentModificationExceptionState** exception, but the child objects of the specified **Method** could have been deleted before the error occurred.

<40> [Section 3.1.4.13](#): In SharePoint Foundation 2010, the **Parameter** will not be deleted when this operation does not succeed. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

<41> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a [MetadataException](#) (from namespace [Microsoft.BusinessData.SharePoint](#)) serialized as specified in section [2.2.4](#).

<42> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a [MetadataException](#) (from namespace [Microsoft.BusinessData.SharePoint](#)) serialized as specified in section [2.2.4](#).

<43> [Section 3.1.4.16](#): In SharePoint Foundation 2010, the **Method** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the **MethodInstances**, **FilterDescriptors**, and **Parameters** that are child objects of the specified **Method**, as well as all their child objects, could have already been deleted.

<44> [Section 3.1.4.16](#): In SharePoint Foundation 2010, the **Parameter** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

<45> [Section 3.1.4.17](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<46> [Section 3.1.4.17](#): In SharePoint Foundation 2010, the server does not return any error complex type for this condition, but instead returns NULL.

<47> [Section 3.1.4.17.2.1](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<48> [Section 3.1.4.19](#): In SharePoint Foundation 2010, a security principal (1) is authorized to export a **MetadataObject** if the same security principal (1) is authorized to modify the same **MetadataObject**.

<49> [Section 3.1.4.20](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<50> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<51> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<52> [Section 3.1.4.25](#): SharePoint Foundation 2010 does not raise an error in this case.

<53> [Section 3.1.4.26](#): SharePoint Foundation 2010 does not raise an error in this case.

<54> [Section 3.1.4.27](#): SharePoint Foundation 2010 does not raise an error in this case.

<55> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<56> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<57> [Section 3.1.4.35](#): SharePoint Foundation 2010 does not raise an error in this case.



<58> [Section 3.1.4.36](#): SharePoint Foundation 2010 does not raise an error in this case.

<59> [Section 3.1.4.38](#): SharePoint Foundation 2010 does not raise an error in this case.

<60> [Section 3.1.4.40](#): SharePoint Foundation 2010 does not raise an error in this case.

<61> [Section 3.1.4.41](#): In SharePoint Foundation 2010, this operation always returns zero **TypeDescriptors**.

<62> [Section 3.1.4.41](#): SharePoint Foundation 2010 does not raise an error in this case.

<63> [Section 3.1.4.41](#): SharePoint Foundation 2010 does not raise an error in this case.

<64> [Section 3.1.4.43](#): SharePoint Foundation 2010 does not return a fault in this case.

<65> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.

<66> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.

<67> [Section 3.1.4.46](#): SharePoint Foundation 2010 does not return a fault in this case.

<68> [Section 3.1.4.48](#): SharePoint Foundation 2010 does not return a fault in this case.

<69> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.

<70> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.

<71> [Section 3.1.4.51](#): SharePoint Foundation 2010 does not return a fault when the value of the role parameter is not zero ("0") or "1".

<72> [Section 3.1.4.51](#): SharePoint Foundation 2010 returns a **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) error complex type in this case.

<73> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.

<74> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.

<75> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.

<76> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.

<77> [Section 3.1.4.60](#): SharePoint Foundation 2010 does not raise an error in this case.

<78> [Section 3.1.4.60](#): SharePoint Foundation 2010 does not raise an error in this case.

<79> [Section 3.1.4.61](#): The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.

<80> [Section 3.1.4.61](#): SharePoint Foundation 2010 checks the edit rights of the security principal (1) on the **LobSystem** to determine if the security principal (1) is authorized to read the **LobSystem**.

<81> [Section 3.1.4.63](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

<82> [Section 3.1.4.64](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

<83> [Section 3.1.4.64](#): SharePoint Foundation 2010 does not raise an error in this case.

<84> [Section 3.1.4.64](#): SharePoint Foundation 2010 does not raise an error in this case.

<85> [Section 3.1.4.64.2.2](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<86> [Section 3.1.4.66](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

<87> [Section 3.1.4.66](#): SharePoint Foundation 2010 does not return a fault in this case.

<88> [Section 3.1.4.66](#): SharePoint Foundation 2010 does not return a fault in this case.

<89> [Section 3.1.4.67](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<90> [Section 3.1.4.67](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

<91> [Section 3.1.4.67.2.2](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<92> [Section 3.1.4.69](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

<93> [Section 3.1.4.69](#): SharePoint Foundation 2010 does not return a fault in this case.

<94> [Section 3.1.4.69](#): SharePoint Foundation 2010 does not return a fault in this case.

<95> [Section 3.1.4.72](#): SharePoint Foundation 2010 does not raise an error in this case.

<96> [Section 3.1.4.73](#): SharePoint Foundation 2010 does not raise an error in this case.

<97> [Section 3.1.4.74](#): SharePoint Foundation 2010 does not return a fault in this case.

<98> [Section 3.1.4.74](#): SharePoint Foundation 2010 does not return a fault in this case.

<99> [Section 3.1.4.77](#): SharePoint Foundation 2010 does not return a fault in this case.

<100> [Section 3.1.4.80](#): SharePoint Foundation 2010 does not return a fault in this case.

<101> [Section 3.1.4.80](#): SharePoint Foundation 2010 does not return a fault in this case.

<102> [Section 3.1.4.83.2.2](#): SharePoint Foundation 2010 requires the identifier to be in the following format as expressed in ABNF, as specified in [\[RFC5234\]](#):

```
Identifier = TypeName (%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

**TypeName**: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework. The format is specified in [\[MS-](#)

[NRTP](#) section 2.2.1.2. The specified type implements operations that are described in [\[MSDN-SharePointSDK\]](#).

<103> [Section 3.1.4.86](#): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<104> [Section 3.1.4.94.2.2](#): SharePoint Foundation 2010 always sets this element to false regardless of whether or not the specified **Parameter** contains a **ReturnPropertyDescriptor**.

<105> [Section 3.1.4.95](#): In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

<106> [Section 3.1.4.95.2.2](#): In SharePoint Foundation 2010, if the **MetadataObject** specified in the request is a **MetadataCatalog** and the client specifies a name for it, the server will ignore the name set by the client and set the new created **MetadataCatalog** name with the input **partitionId**. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and **DestinationEntityNamespace** value. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and non-empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and will use the associated input **DestinationEntityNamespace** value appended with a "," as the **DestinationEntityNamespace** value.

<107> [Section 3.1.4.97](#): In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

<108> [Section 3.1.4.97](#): SharePoint Foundation 2010 returns a fault containing the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](#) complex type in this case.

<109> [Section 3.1.4.99](#): SharePoint Foundation 2010 returns a fault containing the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](#) complex type in this case.

<110> [Section 3.1.4.99.2.1](#): In SharePoint Foundation 2010, if this element is set to TRUE, the protocol server does not remove the **Entity** references from the **Model** and does not create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel**.

<111> [Section 3.1.4.100.2.1](#): SharePoint Foundation 2010 does not validate this constraint.

<112> [Section 3.1.4.100.2.1](#): SharePoint Foundation 2010 does not enforce this to be **MetadataCatalog**.

<113> [Section 3.1.4.110](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<114> [Section 3.1.4.110.2.1](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<115> [Section 3.1.4.114](#): SharePoint Foundation 2010 does not return a fault in this case.

<116> [Section 3.1.4.114](#): SharePoint Foundation 2010 does not return a fault in this case.

[<117> Section 3.1.4.114:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<118> Section 3.1.4.114:](#) In SharePoint Foundation 2010, if the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, the server throws the **BdcExceptionState** error, and the **ordinalNumber** attribute of the specified **Parameter** is updated to the same as the **ordinalNumber** attribute in the request message. After the operation completes, there are two **Parameters** with the same **ordinalNumber** attribute.

[<119> Section 3.1.4.114:](#) In SharePoint Foundation 2010, if the **isDefault** attribute of the specified **MethodInstance** is set to "false"(and the previous **isDefault** attribute of all **MethodInstances** that have the same value for the **MethodInstanceType** attribute in the containing **DataClass** is "false") the protocol server sets the **IsDefault** attribute of one **MethodInstance** with the same value for **MethodInstanceType** in the containing **DataClass** to "true". The algorithm used by the server to determine which **MethodInstance** to alter is based on an implementation-specific algorithm, and is therefore nondeterministic.

[<120> Section 3.1.4.115:](#) SharePoint Foundation 2010 does not enforce the specified **MetadataObject** to be a **Model** or an **LobSystem**.

[<121> Section 3.1.4.115.2.1:](#) SharePoint Foundation 2010 does not validate this constraint.

## 9 Change Tracking

This section identifies changes that were made to the [MS-BDCWPS] protocol document between the February 2013 and July 2013 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.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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 language and 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 or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

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.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- 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 [protocol@microsoft.com](mailto:protocol@microsoft.com).

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">2.2.4.28 DataClassStruct</a>	Updated description for active element of DataClassStruct.	N	Content updated.
<a href="#">2.2.4.31 EntityStruct</a>	Added link for CacheUsage.	N	Content updated.
<a href="#">2.2.4.33 Exception</a>	Added description for ser:FactoryType attribute.	N	New content added.
<a href="#">2.2.4.34 FilterDescriptorStruct</a>	Added link for FilterType.	N	Content updated.
<a href="#">2.2.4.40 LobSystemStruct</a>	Added link for SystemType.	N	Content updated.
<a href="#">2.2.4.45 MethodInstanceStruct</a>	Added link for MethodInstanceType.	N	Content updated.
<a href="#">2.2.4.52 SafetyNetStruct</a>	Updated description for enabled element of SafetyNetStruct.	N	Content updated.
<a href="#">2.2.4.54 TypeDescriptorStruct</a>	Added link for " flags".	N	Content updated.
<a href="#">2.2.4.54 TypeDescriptorStruct</a>	Added link for " flags".	N	Content updated.
<a href="#">2.2.5.10 ThrottleScope</a>	Added link for "SystemType".	N	Content updated.

<b>Section</b>	<b>Tracking number (if applicable) and description</b>	<b>Major change (Y or N)</b>	<b>Change type</b>
<a href="#">3.1.1 Abstract Data Model</a>	Changed "value" into "vluе" for the attributes of LocalizedName.	N	Content updated.
<a href="#">3.1.4.10.2.1 CopyAclAcrossChildrenForSetting</a>	Removed "to and" from the description of metadataObjectStruct element.	N	Content updated.
<a href="#">3.1.4.19 ExportPackage</a>	Updated the description for ExportPackage operation.	N	Content updated.
<a href="#">3.1.4.62.2.1 GetLobSystemById</a>	Updated the description of performErrorCheck element.	N	Content updated.
<a href="#">3.1.4.65.2.1 GetLobSystemInstanceById</a>	Updated the description of performErrorCheck element.	N	Content updated.
<a href="#">3.1.4.66 GetLobSystemInstancesForLobSystem</a>	Updated "LobSystem" to "LobSystemInstance".	N	Product behavior note updated.
<a href="#">3.1.4.91 ImportPackage</a>	Added a bullet symbol in section 3.1.4.91.	N	Editorially updated.
<a href="#">3.1.4.91 ImportPackage</a>	Updated the description of ImportPackage	N	Content updated.
<a href="#">3.1.4.92 ImportPackageWithProgress</a>	Updated the description of ImportPackageWithProgress.	N	Content updated.
<a href="#">3.1.4.98 MetadataObjectWriteXml</a>	Updated the description for MetadataObjectWriteXml operation.	N	Content updated.
<a href="#">3.1.4.106.2.1 SaveProperty</a>	Added the description "The value of its metadataObjectId MUST be ignored by the protocol server." for propertyStruct element.	N	New content added.

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