

[MS-BDCRAWPS]:

Business Data Connectivity Remote Administration Web Service Protocol

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Revision Summary

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8/28/2009	0.2	Editorial	Revised and edited the technical content
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1 Introduction

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

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

1.1 Glossary

This document uses the following terms:

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

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

AccessChecker: A type of **MethodInstance** that can be called to retrieve the permissions that the calling **security principal (2)** has for each of a collection of EntityInstances identified by the specified EntityInstanceIds.

Action: A type of **MetadataObject** that represents a URL that triggers the display or manipulation of data related to an Entity or EntityInstance. Actions are contained by an Entity. Actions contain **ActionParameters**.

ActionParameter: A type of **MetadataObject** that defines how to parameterize the URL of an **Action** with specific data about an EntityInstance. ActionParameters are contained by Actions.

ActivityTrackingFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value specifies a **GUID** for the current operation.

anonymous user: A user who presents no credentials when identifying himself or herself. The process for determining an anonymous user can differ based on the authentication protocol, and the documentation for the relevant authentication protocol should be consulted.

Association: A **MethodInstance** that enables the traversal and manipulation of a data model relationship between a set of source **Entities** and a single destination Entity. An Association can retrieve, associate, and disassociate EntityInstances of a destination Entity if given EntityInstances of other source Entities.

AssociationGroup: A **MetadataObject** that provides a logical grouping of **AssociationReferences**. All of the **Associations** that are identified by AssociationReferences in the group operate on a single physical mapping of source **EntityInstances** to destination EntityInstances in a line-of-business (LOB) system. All AssociationReferences in the group have the same AssociationReference sources and destinations, and collectively define the source and destination **Entities** of the AssociationGroup.

AssociationNavigator: A type of **MethodInstance** that can be called to retrieve destination **EntityInstances** that are associated with a single specified EntityInstance for each of the sources of the specified **Association**.

AssociationReference: An entry in an **AssociationGroup** that refers to an **Association**. The sources of the AssociationReference are the sources of the referenced Association, and the destination of the AssociationReference is the destination of the referenced Association. The opposite is true if the AssociationReference is defined to be a reverse reference, for Associations with one source Entity.

Associator: A type of **MethodInstance** that can be called to associate the specified, destination EntityInstance with a single specified EntityInstance for each of the sources of the specified **Association**.

Augmented Backus-Naur Form (ABNF): A modified version of Backus-Naur Form (BNF), commonly used by Internet specifications. ABNF notation balances compactness and simplicity with reasonable representational power. ABNF differs from standard BNF in its definitions and uses of naming rules, repetition, alternatives, order-independence, and value ranges. For more information, see [\[RFC5234\]](#).

base64 encoding: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [\[RFC4648\]](#).

BatchingPositionFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value represents the current position of a batch, if the LOB system can return data in batches. When requesting a new batch, the filter can be populated with the position of the last batch.

BatchingTerminationFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be used to identify the last batch, if the LOB system can return data in batches.

BinarySecurityDescriptorAccessor: A type of **MethodInstance** that can be called to retrieve a sequence of bytes from a line-of-business (LOB) system. The system-specific byte sequence describes a set of **security principals (2)** and the associated permissions that each **security principal (2)** has for the EntityInstance identified by a specified EntityInstanceId.

BulkAssociatedIdEnumerator: A type of **MethodInstance** that can be called to retrieve pairs of EntityInstanceIds of source EntityInstances and EntityInstanceIds of corresponding destination EntityInstances for a specified **Association**. The specified EntityInstances are either a source or a destination in the specified Association.

BulkAssociationNavigator: A type of **MethodInstance** that can be called to retrieve destination EntityInstances that are associated with multiple specified EntityInstances for each of the sources of the specified **Association**.

BulkIdEnumerator: A type of **MethodInstance** that can be called to retrieve a set of EntityInstanceIds and a small subset of important Fields of the EntityInstances that are identified by the specified set of EntityInstanceIds.

BulkSpecificFinder: A type of **MethodInstance** that can be called to return a set of specific EntityInstances of an Entity, given a set of corresponding EntityInstanceIds.

Business Logic Module: A module that contains Business Logic software and is called to enforce data constraints or perform tasks that are loaded and executed in a host-specific run-time environment.

ChangedIdEnumerator: A type of **MethodInstance** that can be called to retrieve EntityInstanceIds of EntityInstances that were modified in a line-of-business (LOB) system after a specified time.

ComparisonFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. An LOB system can compare a ComparisonFilter value with the value of a specific Field of a set of EntityInstances and only those EntityInstances where the Field values pass the comparison test can be returned.

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

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

Creator: A type of **MethodInstance** that can be called to create a new EntityInstance. The set of Fields that are required to create the EntityInstance is referred to as the Creator View.

DataClass: A type of **MetadataObject** that represents a type of a business data object obtained from a **line-of-business (LOB) system**. Instances of a DataClass have transient identity. DataClasses are contained by **LobSystems** and Methods.

DefaultValue: A value that is associated with a **TypeDescriptor**, in the context of a MethodInstance, and is used to instantiate Parameter values when calling native APIs in a line-of-business (LOB) system. The type of the value is consistent with the data type represented by the TypeDescriptor.

DeletedIdEnumerator: A type of **MethodInstance** that can be called to retrieve EntityInstanceIds of EntityInstances that were deleted from a line-of-business (LOB) system after the specified time.

Deleter: A type of **MethodInstance** that can be called to delete an EntityInstance with a specified EntityInstanceId.

Disassociator: A type of **MethodInstance** that can be called to remove an association between a specified destination EntityInstance and a single specified EntityInstance for each of the sources of a specified Association.

empty GUID: A 128-bit, 16-byte identification number that is represented by all zeros.

endpoint: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

Entity: A type of **DataClass** that represents a type of business data object that is stored in a line-of-business (LOB) system and whose instances have a persistent EntityInstanceId.

EntityInstance: A set of **Field** values that have a unique identity that represents a specific instance of an Entity, and are stored in a line-of-business (LOB) system.

field: The data elements that constitute an **Entity** in a line-of-business (LOB) system.

FilterDescriptor: A type of **MetadataObject** that describes a normalized way of gathering input from users. A FilterDescriptor is defined by its type and the Method that contains it.

Finder: A type of **MethodInstance** that can be called to return a collection of zero or more EntityInstances of a specific Entity. Finder input is defined by the FilterDescriptors that are contained in the Method that contains the Finder.

GenericInvoker: A type of **MethodInstance** that can be called to perform a specific task in a line-of-business (LOB) system. GenericInvoker input and output is specific to the Method.

globally unique identifier (GUID): A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [RFC4122](#) or [C706](#) must be used for generating the **GUID**. See also universally unique identifier (UUID).

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

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

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

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

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

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

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

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

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

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

LobSystem: A type of **MetadataObject** that represents a specific version of a line-of business (LOB) system. An LOB system can be a database or a web service.

LobSystemInstance: A type of **MetadataObject** that represents a specific deployed instance of a **line-of-business (LOB) system**, as represented by a **LobSystem**. LobSystemInstances are contained by LobSystems. LobSystemInstance Properties describe how to connect to an instance of the LobSystem that contains them by providing information such as the server name, connection string, and authentication mode.

localized name: The descriptive name of a **MetadataObject** for a specific locale.

metadata store: A database that is stored on a back-end database server and contains all stored procedures and storage for the **MetadataObject** types.

MetadataCatalog: A **MetadataObject** that represents a Metadata partition.

MetadataModel: A collection of **MetadataObjects** that describes a line-of-business (LOB) system. It provides a framework for converting operations that are requested by a protocol client into requests that are specific to a given LOB system.

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

MetadataObjectId: An attribute that uniquely identifies a **MetadataObject** that is stored in a metadata store.

Method: A type of **MetadataObject** that represents a piece of executable business logic in a line-of-business (LOB) system. Methods are contained by DataClasses and they contain Parameters.

MethodInstance: A type of **MetadataObject** that associates a normalized or stereotypical semantic with a Method that represents a native API in a line-of-business (LOB) system. MethodInstances identify which part of the data that is returned by a Method is relevant for the semantic by defining a **ReturnTypeDescriptor**. MethodInstances are contained by Methods.

Model: A **MetadataObject** that defines a set of references to a logically related set of Entities. Models are typically used to facilitate easy transfer into and out of Metadata stores.

Open Data Protocol (OData): A web protocol for querying and updating data specified in the OData protocol.

OutputFilter: A **FilterDescriptor** type that is used while calling an operation for a line-of-business (LOB) system. Additional results of an operation that cannot be captured by a ReturnTypeDescriptor can be retrieved as a value of an OutputFilter.

PageNumberFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be the sequence number of the batch to return, if the LOB system can return data in batches.

Parameter: A type of **MetadataObject** that represents the formal parameters of a piece of business logic in a line-of-business (LOB) system. Parameters have a single root TypeDescriptor that defines the structure of the Parameter. They also have a Direction and a TypeReflector. Parameters are contained by Methods.

partition: An area within a shared services database, such as an area that isolates different tenants within a service, or the process of creating such an area in a shared services database.

PasswordCredentialFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and can hold the password of an account that is defined in that system. When it is used in conjunction with a UsernameCredentialFilter, an LOB system can use the PasswordCredentialFilter value to restrict access to data for an account.

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

ReturnTypeDescriptor: An attribute of a **MethodInstance**. It is the TypeDescriptor that identifies the portion of a Method's return or output Parameters to extract and return as the result of executing the MethodInstance. It defines the View of the EntityInstances returned, with its child TypeDescriptors denoting the Fields of the View.

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

root TypeDescriptor: A **TypeDescriptor** that is contained by a Parameter and has no parent TypeDescriptor. A Parameter can contain only one root TypeDescriptor.

Scalar: A type of **MethodInstance** that can be called to return a scalar value.

security principal: (1) A unique entity that is identifiable through cryptographic means by at least one key. It frequently corresponds to a human user, but also can be a service that offers a resource to other security principals. Also referred to as principal.

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

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

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

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses **XML** technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

SOAP action: The HTTP request header field used to indicate the intent of the **SOAP** request, using a **URI** value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

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

SpecificFinder: A type of **MethodInstance** that can be called to return a specific EntityInstance of a specific Entity given its EntityInstanceId. SpecificFinder input is defined and ordered by the Identifiers that are associated with the Entity that is associated with the Method that is associated with the SpecificFinder.

SsoTicketFilter: A **FilterDescriptor** type that is used in conjunction with a single sign-on (SSO) system to transmit an SSO ticket to a line-of-business (LOB) system.

StreamAccessor: A type of **MethodInstance** that can be called to retrieve a **Field** of an EntityInstance in the form of a data stream of bytes.

TimeStampFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be a timestamp that specifies the earliest update to return, if the LOB system can return data that was updated after a specified time.

TypeDescriptor: A type of **MetadataObject** that describes a subset of the structure of a Parameter of a Method of the native API of a line-of-business (LOB) system. A TypeDescriptor can contain TypeDescriptors to form hierarchies that describe Parameters representing complex types, where the leaf TypeDescriptors describe simple or primitive types. A root TypeDescriptor, together with DefaultValues for leaf TypeDescriptors can be used to instantiate an instance of a Parameter value to send to a LOB system to execute a Method.

TypeReflector: A unit of business logic that converts data structures between the type system of the protocol client and the native type system of a line-of-business (LOB) system.

Unicode: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The **Unicode** standard [\[UNICODE5.0.0/2007\]](#) provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

Uniform Resource Identifier (URI): A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [\[RFC3986\]](#).

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

Updater: A type of **MethodInstance** that can be called to update an EntityInstance identified by a specified EntityInstanceId. The set of **Fields** that is required to update the EntityInstance is referred to as the Updater View.

UserContextFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be set automatically by a protocol client to the identity of the user who is calling the LOB system. This value can then be used by the LOB system to authorize and filter the results that are returned.

UserCultureFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value specifies the locale that is used by the application initiating the call.

UsernameCredentialFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and can hold the user name of an account that is defined in that system. When used in conjunction with PasswordCredentialFilter, the LOB system can use its value to restrict access to data.

UserProfileFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and whose value can be obtained by examining the current user's profile. The LOB system can use its value to filter the results that are returned.

View: A set of **Fields** of an **Entity**, or the schema of an Entity. An Entity can have several Views, each consisting of a different set of Fields, but all containing Identifier Fields. Views are associated with **MethodInstances** and define the shape of a MethodInstance's input or output.

web service: A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as **HTTP**, Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

WildcardFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value represents a pattern of regular and wildcard characters that is matched against the value of a particular **Field** of the set of EntityInstances. The LOB system returns only those EntityInstances whose Field values match the specified pattern.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [\[WSDL\]](#). Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

XML: The Extensible Markup Language, as described in [\[XML1.0\]](#).

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

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

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [\[XMLNS-2ED\]](#).

XML namespace prefix: An abbreviated form of an **XML namespace**, as described in [XML].

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by **XML** itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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

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

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

1.2.1 Normative References

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

[ECMA-335] ECMA, "Common Language Infrastructure (CLI): Partitions I through VI", Standard ECMA-335, <http://www.ecma-international.org/flat/publications/Standards/Ecma-335.htm>

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

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

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

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

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

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation 16 August 2006, edited in place 29 September 2006, <http://www.w3.org/TR/2006/REC-xml-20060816/>

1.2.2 Informative References

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

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

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1.3 Protocol Overview (Synopsis)

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

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

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

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

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

1.4 Relationship to Other Protocols

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

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

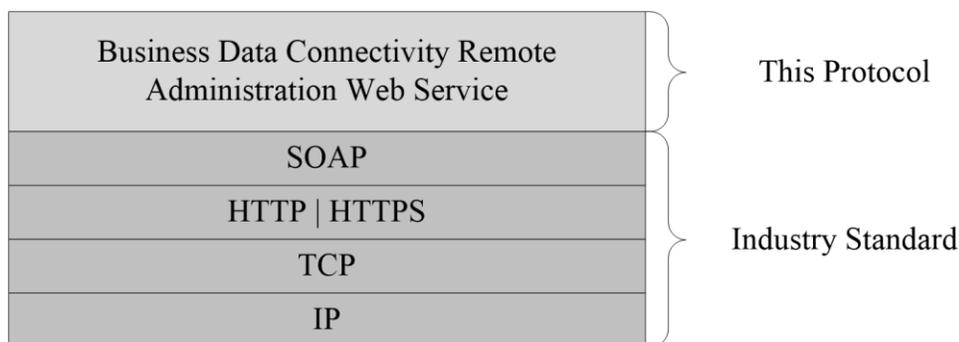


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

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

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

1.6 Applicability Statement

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

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol can be implemented by using transports that support sending **Simple Object Access Protocol (SOAP)** messages, as described in section 2.1.
- **Protocol Versions:** This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

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

2.1 Transport

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

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

2.2 Common Message Syntax

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

2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
q1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	
q2	http://schemas.datacontract.org/2004/07/System	
q4	Microsoft.BusinessData.SharePoint	
q5	Microsoft.SharePoint.BusinessData	
q9	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
ser	http://schemas.microsoft.com/2003/10/Serialization/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://www.microsoft.com/Office/2009/BusinessDataCatalog	
tns1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	
tns2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	
tns3	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants	
tns4	http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports	

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

2.2.2 Messages

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

2.2.3 Elements

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

2.2.4 Complex Types

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

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

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

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

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

Detail: MUST either contain the error complex type or empty

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

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

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

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

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

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

2.2.4.1 AccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

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

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

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

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

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

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

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

2.2.4.2 AccessDeniedException

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

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

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

2.2.4.3 AccessDeniedExceptionState

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

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

```
<xs:complexType name="AccessDeniedExceptionState"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:BdcExceptionState">
      <xs:sequence>
        <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
  type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectType" nillable="true"
  type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

2.2.4.4 ActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

2.2.4.5 ActionStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
        <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

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

2.2.4.6 AdministrationMetadataCatalogStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="AdministrationMetadataCatalogStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.7 ArgumentException

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

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

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

2.2.4.8 ArgumentNullException

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

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

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

2.2.4.9 ArgumentOutOfRangeException

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

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

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

2.2.4.10 ArrayOfAccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfAccessControlEntryStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="q5:AccessControlEntryStruct"/>
  </xs:sequence>
</xs:complexType>
```

AccessControlEntryStruct: A complex type that represents an ACE.

2.2.4.11 ArrayOfAssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfAssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true"
type="q5:AssociationStruct"/>
  </xs:sequence>
</xs:complexType>
```

AssociationStruct: A complex type that represents an Association.

2.2.4.12 ArrayOfEntityStruct

Namespace: Microsoft.SharePoint.BusinessData

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

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

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>

```

EntityStruct: A complex type that represents an Entity.

2.2.4.13 ArrayOfLobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfLobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="q5:LobSystemStruct"/>
  </xs:sequence>
</xs:complexType>

```

LobSystemStruct: A complex type that represents an LobSystem.

2.2.4.14 ArrayOfLocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfLocalizedNameStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="q5:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>

```

LocalizedNameStruct: A complex type that represents a localized name.

2.2.4.15 ArrayOfMethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfMethodInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="q5:MethodInstanceStruct"/>
  </xs:sequence>
</xs:complexType>

```

MethodInstanceStruct: A complex type that represents a MethodInstance.

2.2.4.16 **ArrayOfModelStruct**

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="q5:ModelStruct"/>
  </xs:sequence>
</xs:complexType>
```

ModelStruct: A complex type that represents a Model.

2.2.4.17 **ArrayOfPropertyStruct**

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfPropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="q5:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
```

PropertyStruct: A complex type that represents a Property.

2.2.4.18 **ArrayOfstring**

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

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

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

string: An element in the list.

2.2.4.19 **ArrayOfTypeDescriptorStruct**

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfTypeDescriptorStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="q5:TypeDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>

```

TypeDescriptorStruct: A complex type that represents a TypeDescriptor.

2.2.4.20 ArrayOfunsignedInt

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

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

```

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

```

unsignedInt: An element in the list.

2.2.4.21 AssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="AssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

associationEntityNames: A list containing the names of **Entities** that contain the Associations referenced by the AssociationReferences contained by the AssociationGroup. This element MUST be present. If the corresponding Entity is not active, the value in this list MUST have at least 1, at most 255 **Unicode** characters. Otherwise, the value MUST be 0.

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

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

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

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

2.2.4.22 AssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

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

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

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

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

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

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

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

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

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

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

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

partitionId: The **empty GUID**.[<4>](#)

2.2.4.23 AssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MethodInstanceStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

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

2.2.4.24 BdcException

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

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

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

2.2.4.25 BdcExceptionState

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

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

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

InnerExceptionToStringed: The specific cause of the operation failure.

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

Message: A description of the violation.

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

2.2.4.26 ComplexValueStruct

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

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

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

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

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

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

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

2.2.4.27 ConcurrentModificationExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

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

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

2.2.4.28 DataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="DataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

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

```

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

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

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

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

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

2.2.4.29 DefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="DefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

2.2.4.30 DuplicateMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

```

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

```

```

<xs:complexContent mixed="false">
  <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
    <xs:sequence>
      <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

DuplicateMetadataObjectName: The name of the duplicate MetadataObject.

2.2.4.31 EntityStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="EntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:DataClassStruct">
      <xs:sequence>
        <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
        <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

2.2.4.32 ExceededMetadataObjectLimitExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

```

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

```

```

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

```

Limit: The numerical limit that is exceeded.

2.2.4.33 Exception

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

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

```

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

```

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

2.2.4.34 FilterDescriptorStruct

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

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

```

<xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel"
          minOccurs="0" name="filterType" type="tns1:FilterType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

2.2.4.35 IdentifierStruct

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

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

```

<xs:complexType name="IdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

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

2.2.4.36 InvalidMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="InvalidMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.SharePoint.BusinessData.SharePoint" base="q4:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

2.2.4.37 InvalidMetadataPropertyExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="InvalidMetadataPropertyExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.SharePoint.BusinessData.SharePoint" base="q4:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

InvalidPropertyName: The name of the property that is invalid.

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

2.2.4.38 InvalidOperationException

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

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

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

2.2.4.39 LobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="LobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

2.2.4.40 LobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="LobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

2.2.4.41 LocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

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

```

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

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

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

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

2.2.4.42 MetadataException

Namespace: Microsoft.BusinessData.SharePoint

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

```

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

```

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

innerExceptionToStringed: The detailed reason for the error.

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

message: The detailed reason for the error.

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

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

2.2.4.43 MetadataObjectNotFoundExcpetionState

Namespace: Microsoft.SharePoint.BusinessData

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

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

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

2.2.4.44 MetadataObjectStruct

Namespace: Microsoft.SharePoint.BusinessData

This structure contains the attributes of the **MetadataObject**.

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

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

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

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

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

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

partitionId: The **empty GUID**.

2.2.4.45 MethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

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

2.2.4.46 MethodStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="MethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

lobName: The name of the **line-of-business (LOB) system** operation that is represented by this Method. This element MUST be present. The value of this element MUST NOT be NULL. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, an LOB system operation named "GetCus_1" can be represented by a Method with name equal to "Get Customer". The lobName element of this Method needs to be "GetCus_1".

2.2.4.47 ModelStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.48 PackageFormatExceptionState

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="PackageFormatExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfstring"/>
    <xs:element xmlns:q4="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="q4:MetadataException"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Message: A description of the error.

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

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

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

2.2.4.49 ParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

This structure contains the information about a **Parameter**.

```
<xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

direction: Specifies the direction of the Parameter.

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

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

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

2.2.4.50 PropertyStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

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

2.2.4.51 ProxyGenerationResult

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

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

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

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

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

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

2.2.4.52 SystemException

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

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

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

2.2.4.53 TypeDescriptorStruct

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

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

```
<xs:complexType name="TypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
          type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
rules = rule *( %x00 rule)
rule = convertRule / normalizeRule
convertRule = %x54 fromType HTAB toType CRLF Culture
normalizeRule = %x44 ( local / unspecified / UTC)
UTC = %x42
```

```
local = %x43
unspecified = %x44
fromType = AssemblyQualifiedName
toType = AssemblyQualifiedName
```

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

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

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

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

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

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

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

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

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

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

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

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

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

2.2.4.54 Version

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

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

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

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

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

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

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

2.2.5 Simple Types

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

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

2.2.5.1 CacheUsage

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

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

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

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

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

2.2.5.2 char

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

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

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

2.2.5.3 DirectionType

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

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

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

```

    <xs:enumeration value="InOut"/>
    <xs:enumeration value="Return"/>
  </xs:restriction>
</xs:simpleType>

```

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

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

2.2.5.4 duration

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

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

```

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

```

2.2.5.5 FilterType

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

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

```

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

```

```

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

```

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

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

2.2.5.6 guid

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

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

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

2.2.5.7 MethodInstanceType

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

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

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

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

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

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

2.2.5.8 PackageContents

Namespace: Microsoft.SharePoint.BusinessData

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

```

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

```

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

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

2.2.5.9 SystemType

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

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

```

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

```

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

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

2.2.5.10 TypeDescriptorFlags

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

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

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

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

Value	Meaning
None	No flags exist.
CreatorField	This TypeDescriptor MUST be considered as a field for calling a Creator .
UpdaterField	This TypeDescriptor MUST be considered as a field for calling an Updater .
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the line-of-business (LOB) system corresponding to the field with the same name as this TypeDescriptor when calling an Updater.
IsCollection	This TypeDescriptor MUST be interpreted as a collection of data structures.
ReadOnly	The protocol client MUST prevent values in the data structures corresponding to this TypeDescriptor from being modified.

Value	Meaning
Significant	The protocol client MUST use the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison. When this flag is not set, The protocol client MUST ignore the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison.
IsSortInput	This protocol client MUST use the values in the data structure corresponding to this TypeDescriptor as the input for the SortingFilter . When this flag is not set on any TypeDescriptor, the SortingFilter MUST be ignored.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

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

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

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

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

3.1 Server Details

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

3.1.1 Abstract Data Model

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

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

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

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

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

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

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

Property

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

Localized name

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

Access control entry

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

MetadataObject

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

Model

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, and **PartitionId**.

- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or more **DataClasses** and zero or more **Entities**.

LobSystem

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

LobSystemInstance

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

DataClass

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

Entity

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

Identifier

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

Method

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **LobName**, **IsStatic**, and **EntityId**.

- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **FilterDescriptors**, zero or more **Parameters**, zero or more **MethodInstances**, and zero or more **Associations**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.

MethodInstance

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

Association

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

Parameter

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **Direction**, **PartitionId**, **MethodId**, **OrdinalNumber**, and **RootTypeDescriptorId**.

- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **TypeDescriptors**.
- Contained by exactly one **Method**.
- If the **Parameter** contains one or more **TypeDescriptors**, exactly one **TypeDescriptor** is not contained by any other **TypeDescriptor**. The **TypeDescriptor** that is not contained by any other **TypeDescriptor** corresponds to the **ReturnPropertyDescriptor** of the **Parameter**.

TypeDescriptor

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

FilterDescriptor

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

DefaultValue

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

AssociationGroup

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

AssociationReference

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

Action

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

ActionParameter

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

Cache Version Stamp

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

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

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

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

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

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

- **AddEntityToModel**
- **ClearLocalizedNames**
- **ClearProperties**
- **CopyAclAcrossChildren**
- **CopyAclToSetting**
- **DeleteNoCascade**
- **DeleteProxyAssemblyForLobSystem**
- **ExportPackage**
- **GetAccessControlEntries**
- **GetAllLocalizedNamesForMetadataObjectStruct**
- **GetAllPropertiesForMetadataObjectStruct**
- **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor**
- **GetFieldTypeDescriptorsByMethodInstance**
- **GetLobSystemDataByLobSystem**

- **GetTypeReflectorTypeNameForParameter**
- **ImportPackage**
- **ImportPackageWithProgress**
- **MetadataObjectCreate**
- **MetadataObjectMergeXml**
- **MetadataObjectReadXml**
- **MetadataObjectWriteXml**
- **ModelReadXml**
- **ReadSlicedXml**
- **RemoveEntityFromModel**
- **RemoveLocalizedName**
- **RemoveProperty**
- **SaveLocalizedName**
- **SaveProperty**
- **SetAccessControlEntries**
- **SetDefaultActionForEntity**
- **TypeDescriptorCreate**
- **TypeDescriptorMergeXml**
- **TypeDescriptorReadXml**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Operation	Description
	<p>Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> ▪ ▪ Action element as specified in [MS-BDCMFFS] section 2.1.3.3. ▪ ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. ▪ Association element as specified in [MS-BDCMFFS] section 2.1.3.7. ▪ AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.3.8. ▪ Entity element as specified in [MS-BDCMFFS] section 2.1.3.16. ▪ Identifier element as specified in [MS-BDCMFFS] section 2.1.3.19. ▪ FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.17. ▪ LobSystem element as specified in [MS-BDCMFFS] section 2.1.3.23. ▪ LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.3.24. ▪ Method element as specified in [MS-BDCMFFS] section 2.1.3.30. ▪ MethodInstance element as specified in [MS-BDCMFFS] section 2.1.3.31. ▪ Parameter element as specified in [MS-BDCMFFS] section 2.1.3.37.
<p>MetadataObjectWriteXml</p>	<p>The MetadataObjectWriteXml operation is used to retrieve an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the MetadataModel along with their Properties, localized names, and ACEs, if the "Model" value is specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.1.3.34. ▪ Localized names, Properties, and ACEs corresponding to MetadataObjects contained by the MetadataModel, if the "Model" value is not specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.2.3.28. <p>The MetadataModel used for this operation</p>

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

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

Operation	Description
WriteSlicedXml	This operation is deprecated from the protocol and MUST NOT <26> be called.

3.1.4.1 Activate

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

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

```
<wsdl:operation name="Activate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse"
    message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified Entity .
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified Entity has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the Entity . For example, this error can be triggered when one context reads the given Entity , after which another context updates the same Entity , and then the original context tries to update.
InvalidOperationException (section 2.2.4.38)	The operation cannot be performed for one of the following reasons: <ul style="list-style-type: none"> ▪ The specified Entity or another version of the specified Entity is already active. ▪ The protocol server encountered reference errors as specified in section 3.1.4.4.3.2 when performing this operation.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist.

3.1.4.1.1 Messages

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

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

3.1.4.1.1.1 BusinessDataCatalogSharedService_Activate_InputMessage

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

The **SOAP action** value is:

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
Activate	The input data for the Activate WSDL operation .
ActivateResponse	The result data for the Activate WSDL operation .

3.1.4.1.2.1 Activate

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

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

entityStruct: The specified **Entity**.

3.1.4.1.2.2 ActivateResponse

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

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

ActivateResult: The activated **Entity**.

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 AddAssociationReferenceToAssociationGroup

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

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

```
<wsdl:operation name="AddAssociationReferenceToAssociationGroup"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Input
  Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Output
  Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Argument
  ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Argument
  ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Argument
  ExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup BdcEx
  ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
  </wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

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

3.1.4.2.1 Messages

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

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

3.1.4.2.1.1 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.2.1.2 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage

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

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

3.1.4.2.2 Elements

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

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

3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup

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

```
<xs:element name="AddAssociationReferenceToAssociationGroup"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationGroupStruct" nillable="true" type="q5:AssociationGroupStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupStruct: The **AssociationGroup**.

associationReferenceStruct: The **AssociationReference**.

3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse

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

```
<xs:element name="AddAssociationReferenceToAssociationGroupResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
        type="q5:AssociationGroupStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddAssociationReferenceToAssociationGroupResult: The **AssociationGroup**.

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

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 AddEntityToModel

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

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

```
<wsdl:operation name="AddEntityToModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

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

3.1.4.3.1 Messages

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

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

3.1.4.3.1.1 BusinessDataCatalogSharedService_AddEntityToModel_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.3.1.2 BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage

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

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

3.1.4.3.2 Elements

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

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

3.1.4.3.2.1 AddEntityToModel

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

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

modelStruct: The **Model**.

entityStruct: The **Entity**.

3.1.4.3.2.2 AddEntityToModelResponse

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

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

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 BulkSwitchActiveOrValidate

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

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

```

<wsdl:operation name="BulkSwitchActiveOrValidate"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate ArgumentExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeEx
ceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_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/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_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/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

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

3.1.4.4.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage	The request WSDL message for the BulkSwitchActiveOrValidate WSDL operation .
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage	The response WSDL message for the BulkSwitchActiveOrValidate WSDL operation .

3.1.4.4.1.1 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.4.1.2 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_Output Message

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

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

3.1.4.4.2 Elements

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

Element	Description
BulkSwitchActiveOrValidate	The input data for the BulkSwitchActiveOrValidate WSDL operation .
BulkSwitchActiveOrValidateResponse	The result data for the BulkSwitchActiveOrValidate WSDL operation .

3.1.4.4.2.1 BulkSwitchActiveOrValidate

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

```
<xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
      <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

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

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

3.1.4.4.2.2 BulkSwitchActiveOrValidateResponse

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

```

<xs:element name="BulkSwitchActiveOrValidateResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="q5:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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

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

3.1.4.4.3 Complex Types

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

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

3.1.4.4.3.1 ArrayOfActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfActivationErrorRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="q5:ActivationErrorRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

ActivationErrorRecordStruct: A reference error encountered during the operation.

3.1.4.4.3.2 ActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

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

```

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to [\[MS-BDCMFFS\]](#) section 2.1.5.5, corresponds to a **TypeDescriptor** in a **View** of the

MethodInstances of the specified type contained by the specified **DataClass**, along with the **MetadataObjectId** of one such **MethodInstance**, if one exists.

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

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

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

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

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

Error complex type	Condition
	not exist.

3.1.4.5.1 Messages

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

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

3.1.4.5.1.1 BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.5.1.2 BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage

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

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

3.1.4.5.2 Elements

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

Element	Description
CheckPathInMethodInstances	The input data for the CheckPathInMethodInstances WSDL operation .
CheckPathInMethodInstancesResponse	The result data for the CheckPathInMethodInstances WSDL operation .

3.1.4.5.2.1 CheckPathInMethodInstances

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

```
<xs:element name="CheckPathInMethodInstances" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <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 **ReturnTypeInfo** of the **MethodInstance**. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section 2.1.5.5.

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

partitionId: An **empty GUID**.

3.1.4.5.2.2 CheckPathInMethodInstancesResponse

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

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

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

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

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 ClearLocalizedNames

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

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

```
<wsdl:operation name="ClearLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

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

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

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

3.1.4.6.1 Messages

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

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

3.1.4.6.1.1 BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.6.1.2 BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage

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

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

3.1.4.6.2 Elements

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

Element	Description
ClearLocalizedNames	The input data for the ClearLocalizedNames WSDL operation .
ClearLocalizedNamesResponse	The result data for the ClearLocalizedNames WSDL operation .

3.1.4.6.2.1 ClearLocalizedNames

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

```
<xs:element name="ClearLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

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

3.1.4.6.2.2 ClearLocalizedNamesResponse

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

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

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 ClearProperties

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

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

```
<wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

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

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

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

3.1.4.7.1 Messages

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

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

3.1.4.7.1.1 BusinessDataCatalogSharedService_ClearProperties_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.7.1.2 BusinessDataCatalogSharedService_ClearProperties_OutputMessage

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

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

3.1.4.7.2 Elements

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

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

3.1.4.7.2.1 ClearProperties

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

```
<xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

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

3.1.4.7.2.2 ClearPropertiesResponse

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

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

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes


```

edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage response message, unless any one of the conditions in the following table is met.

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

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

3.1.4.8.1 Messages

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

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

3.1.4.8.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.8.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage

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

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

3.1.4.8.2 Elements

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

Element	Description
CopyAclAcrossChildren	The input data for the CopyAclAcrossChildren WSDL operation .
CopyAclAcrossChildrenResponse	The result data for the CopyAclAcrossChildren WSDL operation .

3.1.4.8.2.1 CopyAclAcrossChildren

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

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

metadataObjectStruct: The **MetadataObject**.

3.1.4.8.2.2 CopyAclAcrossChildrenResponse

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

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

</xs:element>

3.1.4.8.3 Complex Types

None.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 CopyAclAcrossChildrenForSetting

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

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

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

```
<wsdl:operation name="CopyAclAcrossChildrenForSetting"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

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

3.1.4.9.1 Messages

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

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

3.1.4.9.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.9.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage

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

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

3.1.4.9.2 Elements

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

Element	Description
CopyAclAcrossChildrenForSetting	The input data for the CopyAclAcrossChildrenForSetting WSDL operation .
CopyAclAcrossChildrenForSettingResponse	The result data for the CopyAclAcrossChildrenForSetting WSDL operation .

3.1.4.9.2.1 CopyAclAcrossChildrenForSetting

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

```

<xs:element name="CopyAclAcrossChildrenForSetting"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

metadataObjectStruct: The **MetadataObject**.

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

3.1.4.9.2.2 CopyAclAcrossChildrenForSettingResponse

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

```

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

```

3.1.4.9.3 Complex Types

None.

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 CopyAclToSetting

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

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

```

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

```

```

edService/CopyAclToSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error Complex Type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified ACEs.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId

Error Complex Type	Condition
	of the specified MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist in the metadata store .

3.1.4.10.1 Messages

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

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

3.1.4.10.1.1 BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.10.1.2 BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage

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

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

3.1.4.10.2 Elements

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

Element	Description
CopyAclToSetting	The input data for the CopyAclToSetting WSDL operation .
CopyAclToSettingResponse	The result data for the CopyAclToSetting WSDL operation .

3.1.4.10.2.1 CopyAclToSetting

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

```
<xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

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

3.1.4.10.2.2 CopyAclToSettingResponse

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

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

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 Deactivate

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

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

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

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol

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

Error complex type	Condition
	specified Entity is already not active.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist.

3.1.4.11.1 Messages

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

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

3.1.4.11.1.1 BusinessDataCatalogSharedService_Deactivate_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.11.1.2 BusinessDataCatalogSharedService_Deactivate_OutputMessage

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

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

3.1.4.11.2 Elements

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

Element	Description
Deactivate	The input data for the Deactivate WSDL operation .
DeactivateResponse	The result data for the Deactivate WSDL operation .

3.1.4.11.2.1 Deactivate

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

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

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

3.1.4.11.2.2 DeactivateResponse

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

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

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

3.1.4.11.3 Complex Types

None.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 Delete

This operation is used to delete the specified **MetadataObject**.

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

```
<wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

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

```

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

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

Error Complex Type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , or the specified MetadataObject is a Model and the security principal (2) in whose context the protocol client is operating is not authorized to modify one or more of the LobSystems which contain one or more Entity referenced by the specified Model .
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified MetadataObject has been updated by a context other than the one that it has been currently read by. This happens when the specified object

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

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

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

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

3.1.4.12.1 Messages

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

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

3.1.4.12.1.1 BusinessDataCatalogSharedService_Delete_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.12.1.2 BusinessDataCatalogSharedService_Delete_OutputMessage

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

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

3.1.4.12.2 Elements

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

Element	Description
Delete	The input data for the Delete WSDL operation .
DeleteResponse	The result data for the Delete WSDL operation .

3.1.4.12.2.1 Delete

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

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

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

3.1.4.12.2.2 DeleteResponse

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

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

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7 Attribute Groups

None.

3.1.4.13 DeleteAssociationReferenceFromAssociationGroup

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

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

```
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup
MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage response message, unless any one of the conditions in the following table is met.

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

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

Error complex type	Condition
	specified by the associationGroupId of the specified AssociationReference does not exist.

3.1.4.13.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage	The request WSDL message for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage	The response WSDL message for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .

3.1.4.13.1.1 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.13.1.2 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage

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

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

3.1.4.13.2 Elements

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

Element	Description
DeleteAssociationReferenceFromAssociationGroup	The input data for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .
DeleteAssociationReferenceFromAssociationGroupResponse	The result data for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .

3.1.4.13.2.1 DeleteAssociationReferenceFromAssociationGroup

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

```
<xs:element name="DeleteAssociationReferenceFromAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationReferenceStruct: The **AssociationReference**.

partitionId: An **empty GUID**.

3.1.4.13.2.2 DeleteAssociationReferenceFromAssociationGroupResponse

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

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

3.1.4.13.3 Complex Types

None.

3.1.4.13.4 Simple Types

None.

3.1.4.13.5 Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 DeleteDefaultValueForTypeDescriptor

This operation is used to delete the **DefaultValue** of the specified **TypeDescriptor** for the specified **MethodInstance**.

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

```
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified TypeDescriptor .
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId for the TypeDescriptor or the MethodInstance is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified TypeDescriptor or the specified MethodInstance does not exist.

3.1.4.14.1 Messages

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

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

3.1.4.14.1.1 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor or_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.14.1.2 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor or_OutputMessage

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

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

3.1.4.14.2 Elements

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

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

3.1.4.14.2.1 DeleteDefaultValueForTypeDescriptor

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

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

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

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

partitionId: An **empty GUID**.

3.1.4.14.2 DeleteDefaultValueForTypeDescriptorResponse

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

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

3.1.4.14.3 Complex Types

None.

3.1.4.14.4 Simple Types

None.

3.1.4.14.5 Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 DeleteNoCascade

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

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

```
<wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFaul
t FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.2)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject .
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified MetadataObject has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the MetadataObject . For example, this error can be triggered when one context reads the given MetadataObject , after which another context updates the same MetadataObject , and then the original context tries to update the same MetadataObject .
InvalidOperationException (section 2.2.4.38)	One of the following conditions is satisfied: <ul style="list-style-type: none"> The operation cannot be performed because the specified MetadataObject is an Entity, which, if active, MUST be made not active before being deleted. An attempt was made to make the Entity not active, but, at the time of the attempt, the Entity was no longer active. The operation cannot be performed because the specified MetadataObject is a FilterDescriptor of type TimeStampFilter and is currently used in

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

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

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

3.1.4.15.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage	The request WSDL message for the DeleteNoCascade WSDL operation .
BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage	The response WSDL message for the DeleteNoCascade WSDL operation .

3.1.4.15.1.1 BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.15.1.2 BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage

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

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

3.1.4.15.2 Elements

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

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

3.1.4.15.2.1 DeleteNoCascade

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

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

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

3.1.4.15.2 DeleteNoCascadeResponse

The **DeleteNoCascadeResponse** element specifies the result data for the **DeleteNoCascade WSDL operation**.

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

3.1.4.15.3 Complex Types

None.

3.1.4.15.4 Simple Types

None.

3.1.4.15.5 Attributes

None.

3.1.4.15.6 Groups

None.

3.1.4.15.7 Attribute Groups

None.

3.1.4.16 DeleteProxyAssemblyForLobSystem

This operation is used to delete a **Business Logic Module** [<32>](#) associated with the specified **LobSystem**.

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

```
<wsdl:operation name="DeleteProxyAssemblyForLobSystem"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified LobSystem.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist.

3.1.4.16.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage	The request WSDL message for the DeleteProxyAssemblyForLobSystem WSDL operation .
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the DeleteProxyAssemblyForLobSystem WSDL operation .

3.1.4.16.1.1 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.16.1.2 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage

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

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

3.1.4.16.2 Elements

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

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

3.1.4.16.2.1 DeleteProxyAssemblyForLobSystem

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

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

```

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

```

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

3.1.4.16.2.2 DeleteProxyAssemblyForLobSystemResponse

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

```

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

```

3.1.4.16.3 Complex Types

None.

3.1.4.16.4 Simple Types

None.

3.1.4.16.5 Attributes

None.

3.1.4.16.6 Groups

None.

3.1.4.16.7 Attribute Groups

None.

3.1.4.17 EntityCreate

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

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

```

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

```

```

message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

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

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

3.1.4.17.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_EntityCreate_InputMessage	The request WSDL message for the EntityCreate WSDL operation .
BusinessDataCatalogSharedService_EntityCreate_OutputMessage	The response WSDL message for the EntityCreate WSDL operation .

3.1.4.17.1.1 BusinessDataCatalogSharedService_EntityCreate_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.17.1.2 BusinessDataCatalogSharedService_EntityCreate_OutputMessage

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

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

3.1.4.17.2 Elements

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

Element	Description
EntityCreate	The input data for the EntityCreate WSDL operation .
EntityCreateResponse	The result data for the EntityCreate WSDL operation .

3.1.4.17.2.1 EntityCreate

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

```
<xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
nillable="true" type="q5:EntityStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: The **Entity** to be created.

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

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

3.1.4.17.2.2 EntityCreateResponse

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

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

EntityCreateResult: The created **Entity**.

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 ExportPackage

This operation is used to retrieve an **XML** representation of the following objects from the **metadata store**:

- **MetadataObjects** contained by the specified **MetadataModel** along with their **Properties**, **localized names** and **ACEs**, if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- Localized names, Properties, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

If the specified **MetadataModel** contains **LobSystems** that the **security principal (2)** in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

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

```
<wsdl:operation name="ExportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to export<34> the specified Model .
ArgumentException (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the packageContents element.
ArgumentNullException (section 2.2.4.8)	The specified Model is NULL.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified Model is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Model or other MetadataObjects to be exported do not exist.

3.1.4.18.1 Messages

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

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

3.1.4.18.1.1 BusinessDataCatalogSharedService_ExportPackage_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.18.1.2 BusinessDataCatalogSharedService_ExportPackage_OutputMessage

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

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

3.1.4.18.2 Elements

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

Element	Description
ExportPackage	The input data for the ExportPackage WSDL operation .
ExportPackageResponse	The result data for the ExportPackage WSDL operation .

3.1.4.18.2.1 ExportPackage

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

```
<xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The **Model**.

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

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

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

3.1.4.18.2.2 ExportPackageResponse

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

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

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

3.1.4.18.3 Complex Types

None.

3.1.4.18.4 Simple Types

None.

3.1.4.18.5 Attributes

None.

3.1.4.18.6 Groups

None.

3.1.4.18.7 Attribute Groups

None.

3.1.4.19 GenerateProxyAssemblyForLobSystem

This operation is used to force the protocol server to create an implementation-specific **Business Logic Module** for the specified **LobSystem** to connect to the **line-of-business (LOB) system** described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem** this operation MUST NOT create another Business Logic Module and MUST complete successfully.

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

```
<wsdl:operation name="GenerateProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified LobSystem .
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified LobSystem is 0.

3.1.4.19.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage	The request WSDL message for the GenerateProxyAssemblyForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the GenerateProxyAssemblyForLobSystem WSDL operation .

3.1.4.19.1.1 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.19.1.2 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage

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

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

3.1.4.19.2 Elements

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

Element	Description
GenerateProxyAssemblyForLobSystem	The input data for the GenerateProxyAssemblyForLobSystem WSDL operation .
GenerateProxyAssemblyForLobSystemResponse	The result data for the GenerateProxyAssemblyForLobSystem WSDL operation .

3.1.4.19.2.1 GenerateProxyAssemblyForLobSystem

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

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

lobSystemStruct: The **LobSystem**.

3.1.4.19.2.2 GenerateProxyAssemblyForLobSystemResponse

The **GenerateProxyAssemblyForLobSystemResponse** element specifies the result data for the **GenerateProxyAssemblyForLobSystem WSDL operation**.

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

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 GetAccessControlEntries

This operation is used to retrieve the **ACEs** for the specified **MetadataObject** from the specified **Setting**. If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**.

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

```
<wsdl:operation name="GetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject .
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.20.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage	The request WSDL message for the GetAccessControlEntries WSDL operation .
BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage	The response WSDL message for the GetAccessControlEntries WSDL operation .

3.1.4.20.1.1 BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.20.1.2 BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage

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

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

3.1.4.20.2 Elements

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

Element	Description
GetAccessControlEntries	The input data for the GetAccessControlEntries WSDL operation .
GetAccessControlEntriesResponse	The result data for the GetAccessControlEntries WSDL operation .

3.1.4.20.2.1 GetAccessControlEntries

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

```
<xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**.

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

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

3.1.4.20.2.2 GetAccessControlEntriesResponse

The **GetAccessControlEntriesResponse** element specifies the result data for the **GetAccessControlEntries WSDL operation**.

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

GetAccessControlEntriesResult: The list of **ACEs**.

3.1.4.20.3 Complex Types

None.

3.1.4.20.4 Simple Types

None.

3.1.4.20.5 Attributes

None.

3.1.4.20.6 Groups

None.

3.1.4.20.7 Attribute Groups

None.

3.1.4.21 GetActionById

This operation is used to retrieve the specified **Action**.

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

```
<wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

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

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

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

3.1.4.21.1 Messages

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

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

3.1.4.21.1.1 BusinessDataCatalogSharedService_GetActionById_InputMessage

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

The **SOAP action** value is:

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

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

3.1.4.21.1.2 BusinessDataCatalogSharedService_GetActionById_OutputMessage

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

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

3.1.4.21.2 Elements

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

Element	Description
GetActionById	The input data for the GetActionById WSDL operation .
GetActionByIdResponse	The result data for the GetActionById WSDL operation .

3.1.4.21.2.1 GetActionById

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

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

actionId: The **MetadataObjectId** of the Action.

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

partitionId: An **empty GUID**.

3.1.4.21.2.2 GetActionByIdResponse

The **GetActionByIdResponse** element specifies the result data for the **GetActionById WSDL operation**.

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

GetActionByIdResult: The **Action**.

3.1.4.21.3 Complex Types

None.

3.1.4.21.4 Simple Types

None.

3.1.4.21.5 Attributes

None.

3.1.4.21.6 Groups

None.

3.1.4.21.7 Attribute Groups

None.

3.1.4.22 GetActionParameterById

This operation is used to retrieve the specified **ActionParameter**.

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

```
<wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

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

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExeptionState (section 2.2.4.43)	The specified ActionParameter does not exist and the value of the performErrorCheck element is true .

3.1.4.22.1 Messages

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

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

3.1.4.22.1.1 BusinessDataCatalogSharedService_GetActionParameterById_InputMessage

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

The **SOAP action** value is:

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

The **SOAP body** contains the **GetActionParameterById** element.

3.1.4.22.1.2 BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage

The response **WSDL message** for the **GetActionParameterById WSDL operation**.

The **SOAP body** contains the **GetActionParameterByIdResponse** element.

3.1.4.22.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionParameterById	The input data for the GetActionParameterById WSDL operation .
GetActionParameterByIdResponse	The result data for the GetActionParameterById WSDL operation .

3.1.4.22.2.1 GetActionParameterById

The **GetActionParameterById** element specifies the input data for the **GetActionParameterById WSDL operation**.

```
<xs:element name="GetActionParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionParameterId: The **MetadataObjectId** of the **ActionParameter**.

performErrorCheck: The value of this element MUST be ignored if the specified **ActionParameter** exists. If the specified **ActionParameter** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetActionParameterByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.22.2.2 GetActionParameterByIdResponse

The **GetActionParameterByIdResponse** element specifies the result data for the **GetActionParameterById WSDL operation**.

```
<xs:element name="GetActionParameterByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="q5:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParameterByIdResult: The **ActionParameter**.

3.1.4.22.3 Complex Types

None.

3.1.4.22.4 Simple Types

None.

3.1.4.22.5 Attributes

None.

3.1.4.22.6 Groups

None.

3.1.4.22.7 Attribute Groups

None.

3.1.4.23 GetActionParametersForAction

This operation is used to retrieve the **ActionParameters** of the specified **Action**.

The following is the **WSDL** port type specification of the **GetActionParametersForAction WSDL operation**.

```
<wsdl:operation name="GetActionParametersForAction"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
  </pre>
```

```
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl1"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.<36>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Action does not exist.<37>

3.1.4.23.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage	The request WSDL message for the GetActionParametersForAction WSDL operation .
BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage	The response WSDL message for the GetActionParametersForAction WSDL operation .

3.1.4.23.1.1 BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage

The request **WSDL message** for the **GetActionParametersForAction WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction
```

The **SOAP body** contains the **GetActionParametersForAction** element.

3.1.4.23.1.2 BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage

The response **WSDL message** for the **GetActionParametersForAction WSDL operation**.

The **SOAP body** contains the **GetActionParametersForActionResponse** element.

3.1.4.23.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionParametersForAction	The input data for the GetActionParametersForAction WSDL operation .
GetActionParametersForActionResponse	The result data for the GetActionParametersForAction WSDL operation .

3.1.4.23.2.1 GetActionParametersForAction

The **GetActionParametersForAction** element specifies the input data for the **GetActionParametersForAction WSDL operation**.

```
<xs:element name="GetActionParametersForAction" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionId: The **MetadataObjectId** of the **Action**.

partitionId: An **empty GUID**.

3.1.4.23.2.2 GetActionParametersForActionResponse

The **GetActionParametersForActionResponse** element specifies the result data for the **GetActionParametersForAction WSDL operation**.

```
<xs:element name="GetActionParametersForActionResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParametersForActionResult: The list of **ActionParameters** that are contained by the specified **Action**.

3.1.4.23.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfActionParameterStruct	Contains a list of ActionParameters for an Action .

3.1.4.23.3.1 ArrayOfActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of **ActionParameters**.

```
<xs:complexType name="ArrayOfActionParameterStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="q5:ActionParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionParameterStruct: An ActionParameter of an **Action**.

3.1.4.23.4 Simple Types

None.

3.1.4.23.5 Attributes

None.

3.1.4.23.6 Groups

None.

3.1.4.23.7 Attribute Groups

None.

3.1.4.24 GetActionsForEntity

This operation is used to retrieve the **Actions** of the specified **Entity**.

The following is the **WSDL** port type specification of the **GetActionsForEntity WSDL operation**.

```
<wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist.<38>

3.1.4.24.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage	The request WSDL message for the GetActionsForEntity

Message	Description
	WSDL operation.
BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage	The response WSDL message for the GetActionsForEntity WSDL operation.

3.1.4.24.1.1 BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage

The request **WSDL message** for the **GetActionsForEntity** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity
```

The **SOAP body** contains the **GetActionsForEntity** element.

3.1.4.24.1.2 BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage

The response **WSDL message** for the **GetActionsForEntity** **WSDL operation**.

The **SOAP body** contains the **GetActionsForEntityResponse** element.

3.1.4.24.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionsForEntity	The input data for the GetActionsForEntity WSDL operation .
GetActionsForEntityResponse	The result data for the GetActionsForEntity WSDL operation.

3.1.4.24.2.1 GetActionsForEntity

The **GetActionsForEntity** element specifies the input data for the **GetActionsForEntity** **WSDL operation**.

```
<xs:element name="GetActionsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

partitionId: An **empty GUID**.

3.1.4.24.2 GetActionsForEntityResponse

The **GetActionsForEntityResponse** element specifies the result data for the **GetActionsForEntity WSDL operation**.

```
<xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="q5:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionsForEntityResult: The list of **Actions** that are contained by the specified **Entity**.

3.1.4.24.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfActionStruct	Contains a list of Actions .

3.1.4.24.3.1 ArrayOfActionStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of **Actions**.

```
<xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="q5:ActionStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionStruct: An **Action** of an **Entity**.

3.1.4.24.4 Simple Types

None.

3.1.4.24.5 Attributes

None.

3.1.4.24.6 Groups

None.

3.1.4.24.7 Attribute Groups

None.

3.1.4.25 GetAllLocalizedNames

This operation is used to retrieve all **localized names** of the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **GetAllLocalizedNames WSDL operation**.

```
<wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist. <39>

3.1.4.25.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage	The request WSDL message for the GetAllLocalizedNames WSDL operation .
BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage	The response WSDL message for the GetAllLocalizedNames WSDL operation .

3.1.4.25.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage

The request **WSDL message** for the **GetAllLocalizedNames WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames
```

The **SOAP body** contains the **GetAllLocalizedNames** element.

3.1.4.25.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage

The response **WSDL message** for the **GetAllLocalizedNames WSDL operation**.

The **SOAP body** contains the **GetAllLocalizedNamesResponse** element.

3.1.4.25.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllLocalizedNames	The input data for the GetAllLocalizedNames WSDL operation .
GetAllLocalizedNamesResponse	The result data for the GetAllLocalizedNames WSDL operation .

3.1.4.25.2.1 GetAllLocalizedNames

The **GetAllLocalizedNames** element specifies the input data for the **GetAllLocalizedNames WSDL operation**.

```
<xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The **MetadataObjectId** of the **MetadataObject**.

partitionId: An **empty GUID**.

settingId: The **Setting** to return the **localized names** from.

merged: A value which specifies whether the default **Setting** is to be considered in the operation in the case where **settingId** parameter is not NULL. The value MUST in the following table.

Value	Description
True	The protocol server MUST include the localized names from the default Setting and the specified Setting . If a localized name for a given LCID exists for both the default Setting and the specified Setting , only the localized name from the specified Setting MUST be returned.
False	The protocol server MUST return the localized names only for the specified Setting .

3.1.4.25.2.2 GetAllLocalizedNamesResponse

The **GetAllLocalizedNamesResponse** element specifies the result data for the **GetAllLocalizedNames WSDL operation**.

```
<xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllLocalizedNamesResult: The list of **localized names** of the specified **MetadataObject**.

3.1.4.25.3 Complex Types

None.

3.1.4.25.4 Simple Types

None.

3.1.4.25.5 Attributes

None.

3.1.4.25.6 Groups

None.

3.1.4.25.7 Attribute Groups

None.

3.1.4.26 GetAllLocalizedNamesForMetadataObjectStruct

This operation is used to retrieve all the **localized names** of the specified **MetadataObject** for the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

```
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
      wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse"
      message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
        wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
        name="ArgumentExceptionFault"
        message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
        <wsdl:fault
          wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
          name="ArgumentNullExceptionFault"
          message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"
          xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
            wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
            name="ArgumentOutOfRangeExceptionFault"
            message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
            xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
              wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
              name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Met
adataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist. <40>

3.1.4.26.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage	The request WSDL message for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage	The response WSDL message for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .

3.1.4.26.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage

The request **WSDL message** for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct
```

The **SOAP body** contains the **GetAllLocalizedNamesForMetadataObjectStruct** element.

3.1.4.26.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage

The response **WSDL message** for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

The **SOAP body** contains the **GetAllLocalizedNamesForMetadataObjectStructResponse** element.

3.1.4.26.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllLocalizedNamesForMetadataObjectStruct	The input data for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .
GetAllLocalizedNamesForMetadataObjectStructResponse	The result data for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .

3.1.4.26.2.1 GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** element specifies the input data for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** for which the operation will return the **localized names**.

settingId: The **Setting** from which to return the localized names.

merged: A value which specifies whether the default **Setting** is to be considered in the operation in the case where **settingId** parameter is not NULL. The value MUST be in the following table.

Value	Description
True	The protocol server MUST include a localized name from the default Setting in the case where a localized name with the same LCID does not exist for the specified Setting .
False	The protocol server MUST return the localized names only for the specified Setting .

3.1.4.26.2.2 GetAllLocalizedNamesForMetadataObjectStructResponse

The **GetAllLocalizedNamesForMetadataObjectStructResponse** element specifies the result data for the **GetAllLocalizedNamesForMetadataObjectStruct** **WSDL operation**.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllLocalizedNamesForMetadataObjectStructResult: The list of **localized names** of the specified **MetadataObject**.

3.1.4.26.3 Complex Types

None.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetAllPartitionIds

This operation is deprecated from the protocol and MUST NOT be called.

The following is the **WSDL** port type specification of the **GetAllPartitionIds WSDL operation**.

```
<wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.27.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage	The request WSDL message for the GetAllPartitionIds WSDL operation .
BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage	The response WSDL message for the GetAllPartitionIds WSDL operation .

3.1.4.27.1.1 BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage

The request **WSDL message** for the **GetAllPartitionIds WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds
```

The **SOAP body** contains the **GetAllPartitionIds** element.

3.1.4.27.1.2 BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage

The response **WSDL message** for the **GetAllPartitionIds WSDL operation**.

The **SOAP body** contains the **GetAllPartitionIdsResponse** element.

3.1.4.27.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllPartitionIds	The input data for the GetAllPartitionIds WSDL operation .
GetAllPartitionIdsResponse	The result data for the GetAllPartitionIds WSDL operation .

3.1.4.27.2.1 GetAllPartitionIds

The **GetAllPartitionIds** element specifies the input data for the **GetAllPartitionIds WSDL operation**.

```
<xs:element name="GetAllPartitionIds" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence/>  
  </xs:complexType>  
</xs:element>
```

3.1.4.27.2.2 GetAllPartitionIdsResponse

The **GetAllPartitionIdsResponse** element specifies the result data for the **GetAllPartitionIds WSDL operation**.

```
<xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"  
        minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

GetAllPartitionIdsResult: Deprecated.

3.1.4.27.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfguid	Contains a list of GUID identifiers for partitions (1).

3.1.4.27.3.1 ArrayOfguid

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

A complex type that specifies a list of **GUIDs**.

```
<xs:complexType name="ArrayOfguid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

guid: The identifier of a **partition**.

3.1.4.27.4 Simple Types

None.

3.1.4.27.5 Attributes

None.

3.1.4.27.6 Groups

None.

3.1.4.27.7 Attribute Groups

None.

3.1.4.28 GetAllProperties

This operation is used to retrieve all the **Properties** of the specified **MetadataObject** and the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllProperties WSDL operation**.

```
<wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllProperties_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , and the specified MetadataObject is an LOBSystem or LOBSystemInstance .
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.28.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllProperties_InputMessage	The request WSDL message for the GetAllProperties WSDL operation .

Message	Description
BusinessDataCatalogSharedService_GetAllProperties_OutputMessage	The response WSDL message for the GetAllProperties WSDL operation.

3.1.4.28.1.1 BusinessDataCatalogSharedService_GetAllProperties_InputMessage

The request **WSDL message** for the **GetAllProperties** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties
```

The **SOAP body** contains the **GetAllProperties** element.

3.1.4.28.1.2 BusinessDataCatalogSharedService_GetAllProperties_OutputMessage

The response **WSDL message** for the **GetAllProperties** **WSDL operation**.

The **SOAP body** contains the **GetAllPropertiesResponse** element.

3.1.4.28.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllProperties	The input data for the GetAllProperties WSDL operation .
GetAllPropertiesResponse	The result data for the GetAllProperties WSDL operation .

3.1.4.28.2.1 GetAllProperties

The **GetAllProperties** element specifies the input data for the **GetAllProperties** **WSDL operation**.

```
<xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The **MetadataObjectId** for the **MetadataObject**.

partitionId: An **empty GUID**.

settingId: The **Setting** to return the **Properties** from.

merged: A flag which MUST be ignored if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be **true** for the **Properties** in the default **Setting** to be returned in addition to the properties in the specified **Setting**; otherwise, the value MUST be **false**. If the value is **true**, a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**. In this case, the **Property** from the specified **Setting** MUST be retrieved and the **Property** from the default **Setting** MUST be ignored.

3.1.4.28.2.2 GetAllPropertiesResponse

The **GetAllPropertiesResponse** element specifies the result data for the **GetAllProperties WSDL operation**.

```
<xs:element name="GetAllPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllPropertiesResult: The list of **Properties**.

3.1.4.28.3 Complex Types

None.

3.1.4.28.4 Simple Types

None.

3.1.4.28.5 Attributes

None.

3.1.4.28.6 Groups

None.

3.1.4.28.7 Attribute Groups

None.

3.1.4.29 GetAllPropertiesForMetadataObjectStruct

This operation is used to retrieve all the Properties of the specified **MetadataObject** from the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
```

```

message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, and

Error complex type	Condition
	the specified MetadataObject is an LobSystem or LobSystemInstance .
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.29.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage	The request WSDL message for the GetAllPropertiesForMetadataObjectStruct WSDL operation .
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage	The response WSDL message for the GetAllPropertiesForMetadataObjectStruct WSDL operation .

3.1.4.29.1.1 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage

The request **WSDL message** for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct>

The **SOAP body** contains the **GetAllPropertiesForMetadataObjectStruct** element.

3.1.4.29.1.2 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage

The response **WSDL message** for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

The **SOAP body** contains the **GetAllPropertiesForMetadataObjectStructResponse** element.

3.1.4.29.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllPropertiesForMetadataObjectStruct	The input data for the GetAllPropertiesForMetadataObjectStruct WSDL operation .
GetAllPropertiesForMetadataObjectStructResponse	The result data for the GetAllPropertiesForMetadataObjectStruct WSDL operation .

3.1.4.29.2.1 GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** element specifies the input data for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```
<xs:element name="GetAllPropertiesForMetadataObjectStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be an **empty GUID**.

settingId: The **Setting** to return the **Properties** from.

merged: A flag which MUST be ignored if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be **true** for the **Properties** in the default **Setting** to be returned in addition to the properties in the specified **Setting**; otherwise, the value MUST be **false**. If the value is **true**, a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**. In this case, the **Property** from the specified **Setting** MUST be retrieved and the **Property** from the default **Setting** MUST be ignored.

3.1.4.29.2.2 GetAllPropertiesForMetadataObjectStructResponse

The **GetAllPropertiesForMetadataObjectStructResponse** element specifies the result data for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllPropertiesForMetadataObjectStructResult: The list of **Properties**.

3.1.4.29.3 Complex Types

None.

3.1.4.29.4 Simple Types

None.

3.1.4.29.5 Attributes

None.

3.1.4.29.6 Groups

None.

3.1.4.29.7 Attribute Groups

None.

3.1.4.30 GetAssociationById

This operation is used to retrieve the **Association** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationById WSDL operation**.

```
<wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptio
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/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Association with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.30.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationById_InputMessage	The request WSDL message for the GetAssociationById WSDL operation .
BusinessDataCatalogSharedService_GetAssociationById_OutputMessage	The response WSDL message for the GetAssociationById WSDL operation .

3.1.4.30.1.1 BusinessDataCatalogSharedService_GetAssociationById_InputMessage

The request **WSDL message** for the **GetAssociationById WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
AssociationById

```

The **SOAP body** contains the **GetAssociationById** element.

3.1.4.30.1.2 BusinessDataCatalogSharedService_GetAssociationById_OutputMessage

The response **WSDL message** for the **GetAssociationById WSDL operation**.

The **SOAP body** contains the **GetAssociationByIdResponse** element.

3.1.4.30.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationById	The input data for the GetAssociationById WSDL operation .
GetAssociationByIdResponse	The result data for the GetAssociationById WSDL operation .

3.1.4.30.2.1 GetAssociationById

The **GetAssociationById** element specifies the input data for the **GetAssociationById WSDL operation**.

```
<xs:element name="GetAssociationById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association**.

performErrorCheck: The value of this element MUST be ignored if an **Association** with the specified **MetadataObjectId** exists. If an **Association** with the specified **MetadataObjectId** does not exist and the value of this element is **false**, the protocol server MUST set the value of the **GetAssociationByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.30.2.2 GetAssociationByIdResponse

The **GetAssociationByIdResponse** element specifies the result data for the **GetAssociationById WSDL operation**.

```
<xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="q5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationByIdResult: The **Association**.

3.1.4.30.3 Complex Types

None.

3.1.4.30.4 Simple Types

None.

3.1.4.30.5 Attributes

None.

3.1.4.30.6 Groups

None.

3.1.4.30.7 Attribute Groups

None.

3.1.4.31 GetAssociationGroupById

This operation is used to retrieve the **AssociationGroup** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationGroupById WSDL operation**.

```
<wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupByIdInvalidOperationExceptionFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An AssociationGroup with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.31.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage	The request WSDL message for the GetAssociationGroupById WSDL operation .
BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage	The response WSDL message for the GetAssociationGroupById WSDL operation .

3.1.4.31.1.1 BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage

The request **WSDL message** for the **GetAssociationGroupById WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById

The **SOAP body** contains the **GetAssociationGroupById** element.

3.1.4.31.1.2 BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage

The response **WSDL message** for the **GetAssociationGroupById WSDL operation**.

The **SOAP body** contains the **GetAssociationGroupByIdResponse** element.

3.1.4.31.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationGroupById	The input data for the GetAssociationGroupById WSDL operation .
GetAssociationGroupByIdResponse	The result data for the GetAssociationGroupById WSDL operation .

3.1.4.31.2.1 GetAssociationGroupById

The **GetAssociationGroupById** element specifies the input data for the **GetAssociationGroupById WSDL operation**.

```
<xs:element name="GetAssociationGroupById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupId: The **MetadataObjectId** for the **AssociationGroup**.

performErrorCheck: The value of this element MUST be ignored if an **AssociationGroup** with the specified **MetadataObjectId** exists. If and **AssociationGroup** with the specified **MetadataObjectId** does not exist and the value of this element is **false**, the protocol server MUST set the value of the **GetAssociationGroupByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.31.2.2 GetAssociationGroupByIdResponse

The **GetAssociationGroupByIdResponse** element specifies the result data for the **GetAssociationGroupById WSDL operation**.

```
<xs:element name="GetAssociationGroupByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="q5:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetAssociationGroupByIdResult: The **AssociationGroup**.

3.1.4.31.3 Complex Types

None.

3.1.4.31.4 Simple Types

None.

3.1.4.31.5 Attributes

None.

3.1.4.31.6 Groups

None.

3.1.4.31.7 Attribute Groups

None.

3.1.4.32 GetAssociationGroupsForEntity

This operation is used to retrieve the **AssociationGroups** of the **Entity** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationGroupsForEntity WSDL operation**.

```

<wsdl:operation name="GetAssociationGroupsForEntity"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRang
eExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationE
xceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataException
StateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <41>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified MetadataObjectId does not exist. <42>

3.1.4.32.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_Inp utMessage	The request WSDL message for the GetAssociationGroupsForEntity WSDL operation .
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_Out putMessage	The response WSDL message for the GetAssociationGroupsForEntity

Message	Description
	entity WSDL operation.

3.1.4.32.1.1 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage

The request **WSDL message** for the **GetAssociationGroupsForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity
```

The **SOAP body** contains the **GetAssociationGroupsForEntity** element.

3.1.4.32.1.2 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage

The response **WSDL message** for the **GetAssociationGroupsForEntity WSDL operation**.

The **SOAP body** contains the **GetAssociationGroupsForEntityResponse** element.

3.1.4.32.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationGroupsForEntity	The input data for the GetAssociationGroupsForEntity WSDL operation .
GetAssociationGroupsForEntityResponse	The result data for the GetAssociationGroupsForEntity WSDL operation .

3.1.4.32.2.1 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** element specifies the input data for the **GetAssociationGroupsForEntity WSDL operation**.

```
<xs:element name="GetAssociationGroupsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** for the **Entity**.

partitionId: The **empty GUID**.

3.1.4.32.2 GetAssociationGroupsForEntityResponse

The **GetAssociationGroupsForEntityResponse** element specifies the result data for the **GetAssociationGroupsForEntity WSDL operation**.

```
<xs:element name="GetAssociationGroupsForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationGroupsForEntityResult: The list of **AssociationGroups**.

3.1.4.32.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationGroupStruct	Contains a list of AssociationGroups .

3.1.4.32.3.1 ArrayOfAssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of **AssociationGroups**.

```
<xs:complexType name="ArrayOfAssociationGroupStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="q5:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>
```

AssociationGroupStruct: An **AssociationGroup**.

3.1.4.32.4 Simple Types

None.

3.1.4.32.5 Attributes

None.

3.1.4.32.6 Groups

None.

3.1.4.32.7 Attribute Groups

None.

3.1.4.33 GetAssociationMembersInRole

This operation is used to retrieve the source or destination **Entities** of the specified **Association**.

The following is the **WSDL** port type specification of the **GetAssociationMembersInRole WSDL operation**.

```
<wsdl:operation name="GetAssociationMembersInRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero, or the value of the role parameter is not zero or 1.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Association does not exist, or does not refer to any Entities .

3.1.4.33.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage	The request WSDL message for the GetAssociationMembersInRole WSDL operation .
BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage	The response WSDL message for the GetAssociationMembersInRole WSDL operation .

3.1.4.33.1.1 BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage

The request **WSDL message** for the **GetAssociationMembersInRole WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole
```

The **SOAP body** contains the **GetAssociationMembersInRole** element.

3.1.4.33.1.2 BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage

The response **WSDL message** for the **GetAssociationMembersInRole WSDL operation**.

The **SOAP body** contains the **GetAssociationMembersInRoleResponse** element.

3.1.4.33.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationMembersInRole	The input data for the GetAssociationMembersInRole WSDL operation .
GetAssociationMembersInRoleResponse	The result data for the GetAssociationMembersInRole WSDL operation .

3.1.4.33.2.1 GetAssociationMembersInRole

The **GetAssociationMembersInRole** element specifies the input data for the **GetAssociationMembersInRole WSDL operation**.

```
<xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** for the **Association**.

role: An **unsignedByte** value that specifies whether to return source or destination **Entities** from the Association. The following table describes possible values.

Value	Description
0	Only source Entities are returned.
1	Only destination Entities are returned.

partitionId: An **empty GUID**.

3.1.4.33.2.2 GetAssociationMembersInRoleResponse

The **GetAssociationMembersInRoleResponse** element specifies the result data for the **GetAssociationMembersInRole WSDL operation**.

```
<xs:element name="GetAssociationMembersInRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationMembersInRoleResult: The list of source or destination **Entities**.

3.1.4.33.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationMemberStruct	Contains a list of relationships between Entities and Associations .
AssociationMemberStruct	Contains information about a specific relationship of an Entity and Association.

3.1.4.33.3.1 ArrayOfAssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationships between **Entities** and **Associations**.

```
<xs:complexType name="ArrayOfAssociationMemberStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="q5:AssociationMemberStruct"/>
  </xs:sequence>
</xs:complexType>
```

AssociationMemberStruct: Contains information about the relationship between an Entity and an Association.

3.1.4.33.3.2 AssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an **Entity** and an **Association**.

```
<xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

_entityName: The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 **Unicode** characters.

_entityNamespace: The namespace of the **Entity** that is referenced by the **Association**. If the Entity is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 Unicode characters.

associationId: The **MetadataObjectId** of the **Association** referencing the **Entity**. The value of this element MUST be in [1, 0x7fffffff] range.

entityId: The **MetadataObjectId** of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be in [1, 0x7fffffff] range. Otherwise, the value MUST be 0.

partitionId: An **empty GUID**.

role: Specifies whether the **Entity** is a source or the destination of the **Association**. The value of this element MUST be present in the following table.

Value	Description
0	The Entity is a source of the Association .
1	The Entity is the destination of the Association .

3.1.4.33.4 Simple Types

None.

3.1.4.33.5 Attributes

None.

3.1.4.33.6 Groups

None.

3.1.4.33.7 Attribute Groups

None.

3.1.4.34 GetAssociationReferencesForAssociationGroup

This operation is used to retrieve the **AssociationReferences** contained by the specified **AssociationGroup**.

The following is the **WSDL** port type specification of the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```
<wsdl:operation name="GetAssociationReferencesForAssociationGroup"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bdc
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Met
adataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified AssociationGroup does not exist. <43>

3.1.4.34.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage	The request WSDL message for the GetAssociationReferencesForAssociationGroup WSDL operation .
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage	The response WSDL message for the GetAssociationReferencesForAssociationGroup WSDL operation .

3.1.4.34.1.1 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage

The request **WSDL message** for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup>

The **SOAP body** contains the **GetAssociationReferencesForAssociationGroup** element.

3.1.4.34.1.2 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage

The response **WSDL message** for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

The **SOAP body** contains the **GetAssociationReferencesForAssociationGroupResponse** element.

3.1.4.34.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationReferencesForAssociationGroup	The input data for the GetAssociationReferencesForAssociationGroup WSDL operation .
GetAssociationReferencesForAssociationGroupResponse	The result data for the GetAssociationReferencesForAssociationGroup WSDL operation .

3.1.4.34.2.1 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** element specifies the input data for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```

<xs:element name="GetAssociationReferencesForAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

associationGroupId: The **MetadataObjectId** for the **AssociationGroup**.

partitionId: An **empty GUID**.

3.1.4.34.2 GetAssociationReferencesForAssociationGroupResponse

The **GetAssociationReferencesForAssociationGroupResponse** element specifies the result data for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```

<xs:element name="GetAssociationReferencesForAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationReferencesForAssociationGroupResult: The list of **AssociationReferences**. The **Partition** of each **AssociationReference** in the list MUST be an **empty GUID**.

3.1.4.34.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationReferenceStruct	Contains a list of AssociationReferences .

3.1.4.34.3.1 ArrayOfAssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type a list of **AssociationReferences**.

```

<xs:complexType name="ArrayOfAssociationReferenceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="q5:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>

```



```

message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExc
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/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified DataClass does not exist. <44>

3.1.4.35.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForDataClass_Input Message	The request WSDL message for the GetAssociationsForDataClass WSDL operation .
BusinessDataCatalogSharedService_GetAssociationsForDataClass_Output Message	The response WSDL message for the GetAssociationsForDataClass WSDL operation .

3.1.4.35.1.1 BusinessDataCatalogSharedService_GetAssociationsForDataClass_Input Message

The request **WSDL message** for the **GetAssociationsForDataClass WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass

The **SOAP body** contains the **GetAssociationsForDataClass** element.

3.1.4.35.1.2 BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage

The response **WSDL message** for the **GetAssociationsForDataClass WSDL operation**.

The **SOAP body** contains the **GetAssociationsForDataClassResponse** element.

3.1.4.35.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForDataClass	The input data for the GetAssociationsForDataClass WSDL operation .
GetAssociationsForDataClassResponse	The result data for the GetAssociationsForDataClass WSDL operation .

3.1.4.35.2.1 GetAssociationsForDataClass

The **GetAssociationsForDataClass** element specifies the input data for the **GetAssociationsForDataClass WSDL operation**.

```
<xs:element name="GetAssociationsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**. The value of this element MUST be in [1, 0x7fffffff] range.

partitionId: An **empty GUID**.

3.1.4.35.2.2 GetAssociationsForDataClassResponse

The **GetAssociationsForDataClassResponse** element specifies the result data for the **GetAssociationsForDataClass WSDL operation**.

```
<xs:element name="GetAssociationsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

GetAssociationsForDataClassResult: The list of **Associations**.

3.1.4.35.3 Complex Types

None.

3.1.4.35.4 Simple Types

None.

3.1.4.35.5 Attributes

None.

3.1.4.35.6 Groups

None.

3.1.4.35.7 Attribute Groups

None.

3.1.4.36 GetAssociationsForEntityAndRole

This operation is used to retrieve the **Associations** that references the specified **Entity** as **Association** source or **Association** destination.

The following is the **WSDL** port type specification of the **GetAssociationsForEntityAndRole WSDL operation**.

```
<wsdl:operation name="GetAssociationsForEntityAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfR
angeExceptionFault"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST return with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero, or the role parameter is not set to zero or 1.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist. <45>

3.1.4.36.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage	The request WSDL message for the GetAssociationsForEntityAndRole WSDL operation .
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage	The response WSDL message for the GetAssociationsForEntityAndRole WSDL operation .

3.1.4.36.1.1 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage

The request **WSDL message** for the **GetAssociationsForEntityAndRole WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole
```

The **SOAP body** contains the **GetAssociationsForEntityAndRole** element.

3.1.4.36.1.2 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage

The response **WSDL message** for the **GetAssociationsForEntityAndRole WSDL operation**.

The **SOAP body** contains the **GetAssociationsForEntityAndRoleResponse** element.

3.1.4.36.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForEntityAndRole	The input data for the GetAssociationsForEntityAndRole WSDL operation .
GetAssociationsForEntityAndRoleResponse	The result data for the GetAssociationsForEntityAndRole WSDL operation .

3.1.4.36.2.1 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** element specifies the input data for the **GetAssociationsForEntityAndRole WSDL operation**.

```
<xs:element name="GetAssociationsForEntityAndRole"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

role: Specifies whether the Entity is a source or the destination of the **Association**. The value of this element MUST be in the following table.

Value	Description
0	The Entity is a source of the Association .
1	The Entity is the destination of the Association .

activeOnly: Specifies whether to include the **Associations** that reference **Entities** those are not active in the result. For the purposes of this operation, an **Association** is considered to reference an **Entity** when that **Entity** is a source or the destination of the **Association**, or when the **Entity** contains the **Association**. The value of this parameter MUST be in the following table.

Value	Description
True	Return Associations that match the search criteria only if they do not reference an Entity that is not active.
False	Return all Associations that match the search criteria.

partitionId: An **empty GUID**.

3.1.4.36.2.2 GetAssociationsForEntityAndRoleResponse

The **GetAssociationsForEntityAndRoleResponse** element specifies the result data for the **GetAssociationsForEntityAndRole WSDL operation**.

```
<xs:element name="GetAssociationsForEntityAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationsForEntityAndRoleResult" nillable="true"
        type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationsForEntityAndRoleResult: The list of **Associations**.

3.1.4.36.3 Complex Types

None.

3.1.4.36.4 Simple Types

None.

3.1.4.36.5 Attributes

None.

3.1.4.36.6 Groups

None.

3.1.4.36.7 Attribute Groups

None.

3.1.4.37 GetAssociationsForMethod

This operation is used to retrieve the **Associations** that are contained by the specified **Method**.

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/BusinessDataCatalogSharedService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Method does not exist. <46>

3.1.4.37.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage	The request WSDL message for the GetAssociationsForMethod WSDL operation .
BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage	The response WSDL message for the GetAssociationsForMethod WSDL operation .

3.1.4.37.1.1 BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage

The request **WSDL message** for the **GetAssociationsForMethod WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod
```

The **SOAP body** contains the **GetAssociationsForMethod** element.

3.1.4.37.1.2 BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage

The response **WSDL message** for the **GetAssociationsForMethod WSDL operation**.

The **SOAP body** contains the **GetAssociationsForMethodResponse** element.

3.1.4.37.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForMethod	The input data for the GetAssociationsForMethod WSDL operation .
GetAssociationsForMethodResponse	The result data for the GetAssociationsForMethod WSDL operation .

3.1.4.37.2.1 GetAssociationsForMethod

The **GetAssociationsForMethod** element specifies the input data for the **GetAssociationsForMethod WSDL operation**.

```
<xs:element name="GetAssociationsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method**. The value of this element MUST be in [1, 0x7fffffff] range.

partitionId: The **empty GUID**.

3.1.4.37.2.2 GetAssociationsForMethodResponse

The **GetAssociationsForMethodResponse** element specifies the result data for the **GetAssociationsForMethod WSDL operation**.

```
<xs:element name="GetAssociationsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationsForMethodResult: The list of **Associations**.

3.1.4.37.3 Complex Types

None.

3.1.4.37.4 Simple Types

None.

3.1.4.37.5 Attributes

None.

3.1.4.37.6 Groups

None.

3.1.4.37.7 Attribute Groups

None.

3.1.4.38 GetCacheInvalidationRecordsSince

This operation is deprecated from the protocol and MUST NOT [<47>](#) be called.

The following is the **WSDL** port type specification of the **GetCacheInvalidationRecordsSince WSDL operation**.

```
<wsdl:operation name="GetCacheInvalidationRecordsSince"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:fault>
</wsdl:output>
</wsdl:input>
</wsdl:operation>
```

```

name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetCacheInvalidationRecordsSince MetadataExcept
ionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetCacheInvalidationRecordsSince PackageFormatE
xceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

3.1.4.38.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage	The request WSDL message for the GetCacheInvalidationRecordsSince WSDL operation .
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage	The response WSDL message for the GetCacheInvalidationRecordsSince WSDL operation .

3.1.4.38.1.1 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage

The request **WSDL message** for the **GetCacheInvalidationRecordsSince WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
CacheInvalidationRecordsSince

```

The **SOAP body** contains the **GetCacheInvalidationRecordsSince** element.

3.1.4.38.1.2 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage

The response **WSDL message** for the **GetCacheInvalidationRecordsSince WSDL operation**.

The **SOAP body** contains the **GetCacheInvalidationRecordsSinceResponse** element.

3.1.4.38.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetCacheInvalidationRecordsSince	The input data for the GetCacheInvalidationRecordsSince WSDL operation .

Element	Description
GetCacheInvalidationRecordsSinceResponse	The result data for the GetCacheInvalidationRecordsSince WSDL operation.

3.1.4.38.2.1 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** element specifies the input data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSince"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dateTime: Deprecated.

3.1.4.38.2.2 GetCacheInvalidationRecordsSinceResponse

The **GetCacheInvalidationRecordsSinceResponse** element specifies the result data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSinceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetCacheInvalidationRecordsSinceResult" nillable="true"
        type="q5:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetCacheInvalidationRecordsSinceResult: Deprecated.

3.1.4.38.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfCacheInvalidationRecordStruct	Contains a cache version stamps.
CacheInvalidationRecordStruct	Contains information about the version stamps for the cache.

3.1.4.38.3.1 ArrayOfCacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

```

<xs:complexType name="ArrayOfCacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="q5:CacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

CacheInvalidationRecordStruct: Deprecated.

3.1.4.38.3.2 CacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

```

<xs:complexType name="CacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
    <xs:element minOccurs="0" name="counter" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>

```

cacheLine: Deprecated.

counter: Deprecated.

partitionId: Deprecated.

timestamp: Deprecated.

3.1.4.38.4 Simple Types

None.

3.1.4.38.5 Attributes

None.

3.1.4.38.6 Groups

None.

3.1.4.38.7 Attribute Groups

None.

3.1.4.39 GetChildTypeDescriptorsForTypeDescriptor

This operation is used to retrieve the **TypeDescriptors** contained by the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation**.

```

<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Outpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Invali
dOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Metada
taExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is

Error complex type	Condition
	0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified TypeDescriptor does not exist.<48>

3.1.4.39.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage	The request WSDL message for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage	The response WSDL message for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation .

3.1.4.39.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor
```

The **SOAP body** contains the **GetChildTypeDescriptorsForTypeDescriptor** element.

3.1.4.39.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

3.1.4.39.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetChildTypeDescriptorsForTypeDescriptor	The input data for the

Element	Description
	GetChildTypeDescriptorsForTypeDescriptor WSDL operation.
GetChildTypeDescriptorsForTypeDescriptorResponse	The result data for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation.

3.1.4.39.2.1 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsForTypeDescriptor** **WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parentTypeDescriptorId: The **MetadataObjectId** for the **TypeDescriptor**.

partitionId: An **empty GUID**.

3.1.4.39.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse

The **GetChildTypeDescriptorsForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsForTypeDescriptor** **WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChildTypeDescriptorsForTypeDescriptorResult: The list of **TypeDescriptors**.

3.1.4.39.3 Complex Types

None.

3.1.4.39.4 Simple Types

None.

3.1.4.39.5 Attributes


```

message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified TypeDescriptor is 0. <50>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified TypeDescriptor does not exist. <51>

3.1.4.40.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage	The request WSDL message for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage	The response WSDL message for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .

3.1.4.40.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
```

The **SOAP body** contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

3.1.4.40.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

3.1.4.40.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	The input data for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse	The result data for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .

3.1.4.40.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorStruct: The **TypeDescriptor**.

3.1.4.40.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
        type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult: The list of **TypeDescriptors**.

3.1.4.40.3 Complex Types

None.

3.1.4.40.4 Simple Types

None.

3.1.4.40.5 Attributes

None.

3.1.4.40.6 Groups

None.

3.1.4.40.7 Attribute Groups

None.

3.1.4.41 GetDataClassById

This operation is used to retrieve the **DataClass** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetDataClassById WSDL operation**.

```
<wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetDataClassById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDataClassById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A DataClass with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.41.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDataClassById_InputMessage	The request WSDL message for the GetDataClassById WSDL operation .
BusinessDataCatalogSharedService_GetDataClassById_OutputMessage	The response WSDL message

Message	Description
	for the GetDataClassById WSDL operation.

3.1.4.41.1.1 BusinessDataCatalogSharedService_GetDataClassById_InputMessage

The request **WSDL message** for the **GetDataClassById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById
```

The **SOAP body** contains the **GetDataClassById** element.

3.1.4.41.1.2 BusinessDataCatalogSharedService_GetDataClassById_OutputMessage

The response **WSDL message** for the **GetDataClassById WSDL operation**.

The **SOAP body** contains the **GetDataClassByIdResponse** element.

3.1.4.41.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDataClassById	The input data for the GetDataClassById WSDL operation .
GetDataClassByIdResponse	The result data for the GetDataClassById WSDL operation .

3.1.4.41.2.1 GetDataClassById

The **GetDataClassById** element specifies the input data for the **GetDataClassById WSDL operation**.

```
<xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**.

performErrorCheck: The value of this element MUST be ignored if a **DataClass** with the specified **MetadataObjectId** exists. If a **DataClass** with the specified **MetadataObjectId** does not exist and

the value of this element is **false**, the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

partitionId: The **empty GUID**.

3.1.4.41.2 GetDataClassByIdResponse

The **GetDataClassByIdResponse** element specifies the result data for the **GetDataClassById WSDL operation**.

```
<xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDataClassByIdResult: The **DataClass**.

3.1.4.41.3 Complex Types

None.

3.1.4.41.4 Simple Types

None.

3.1.4.41.5 Attributes

None.

3.1.4.41.6 Groups

None.

3.1.4.41.7 Attribute Groups

None.

3.1.4.42 GetDataClassesForSystem

This operation is used to retrieve **DataClasses** contained by the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetDataClassesForSystem WSDL operation**.

```
<wsdl:operation name="GetDataClassesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcepci
onFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends

BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist. <52>

3.1.4.42.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage	The request WSDL message for the GetDataClassesForSystem WSDL operation .
BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage	The response WSDL message for the GetDataClassesForSystem WSDL operation .

3.1.4.42.1.1 BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage

The request **WSDL message** for the **GetDataClassesForSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem
```

The **SOAP body** contains the **GetDataClassesForSystem** element.

3.1.4.42.1.2 BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage

The response **WSDL message** for the **GetDataClassesForSystem WSDL operation**.

The **SOAP body** contains the **GetDataClassesForSystemResponse** element.

3.1.4.42.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDataClassesForSystem	The input data for the GetDataClassesForSystem WSDL operation .
GetDataClassesForSystemResponse	The result data for the GetDataClassesForSystem WSDL operation .

3.1.4.42.2.1 GetDataClassesForSystem

The **GetDataClassesForSystem** element specifies the input data for the **GetDataClassesForSystem WSDL operation**.

```
<xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

activeOnly: Which **DataClasses** to return. If the value is **true**, only the active **DataClasses** MUST be returned. Otherwise, this operation MUST return **DataClasses** contained by the specified LobSystem, regardless of their active status.

partitionId: The **empty GUID**.

3.1.4.42.2 GetDataClassesForSystemResponse

The **GetDataClassesForSystemResponse** element specifies the result data for the **GetDataClassesForSystem WSDL operation**.

```

<xs:element name="GetDataClassesForSystemResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetDataClassesForSystemResult" nillable="true" type="q5:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetDataClassesForSystemResult: The list of **DataClasses**.

3.1.4.42.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfDataClassStruct	Contains a list of DataClasses .

3.1.4.42.3.1 ArrayOfDataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list **DataClasses**.

```

<xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
      type="q5:DataClassStruct"/>
  </xs:sequence>
</xs:complexType>

```

DataClassStruct: A DataClass.

3.1.4.42.4 Simple Types

None.

3.1.4.42.5 Attributes

None.

3.1.4.42.6 Groups

None.

3.1.4.42.7 Attribute Groups

None.

3.1.4.43 GetDefaultValuesForTypeDescriptor

This operation is used to retrieve the **DefaultValues** of the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetDefaultValuesForTypeDescriptor** **WSDL operation**.

```
<wsdl:operation name="GetDefaultValuesForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor MetadataExcep
tionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A TypeDescriptor with specified MetadataObjectId does not exist.

3.1.4.43.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage	The request WSDL message for the GetDefaultValuesForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the GetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.43.1.1 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
DefaultValuesForTypeDescriptor

```

The **SOAP body** contains the **GetDefaultValuesForTypeDescriptor** element.

3.1.4.43.1.2 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **GetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.43.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDefaultValuesForTypeDescriptor	The input data for the GetDefaultValuesForTypeDescriptor WSDL operation .
GetDefaultValuesForTypeDescriptorResponse	The result data for the GetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.43.2.1 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="GetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The **MetadataObjectId** for the **TypeDescriptor**.

partitionId: An **empty GUID**.

3.1.4.43.2.2 GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="GetDefaultValuesForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
        type="q5:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDefaultValuesForTypeDescriptorResult: The **DefaultValues** of the specified **TypeDescriptor**.

3.1.4.43.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfDefaultValueStruct	Contains a list of DefaultValues .

3.1.4.43.3.1 ArrayOfDefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

A complex type that specifies a list of **DefaultValues**.

```
<xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true"
type="q5:DefaultValueStruct"/>
  </xs:sequence>
</xs:complexType>
```

DefaultValueStruct: A **DefaultValue**.

3.1.4.43.4 Simple Types

None.

3.1.4.43.5 Attributes

None.

3.1.4.43.6 Groups

None.

3.1.4.43.7 Attribute Groups

None.

3.1.4.44 GetEntitiesForAssociationAndRole

This operation is used to retrieve the **Entities** performing the role of source or destination for the specified **Association**.

The following is the **WSDL** port type specification of the **GetEntitiesForAssociationAndRole WSDL operation**.

```
<wsdl:operation name="GetEntitiesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfR
angeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	One of the following conditions applies: <ul style="list-style-type: none"> The specified MetadataObjectId is 0. The role parameter is not set to zero or 1. <53>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Association does not

Error complex type	Condition
	exist.<54>

3.1.4.44.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage	The request WSDL message for the GetEntitiesForAssociationAndRole WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage	The response WSDL message for the GetEntitiesForAssociationAndRole WSDL operation .

3.1.4.44.1.1 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage

The request **WSDL message** for the **GetEntitiesForAssociationAndRole WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole>

The **SOAP body** contains the **GetEntitiesForAssociationAndRole** element.

3.1.4.44.1.2 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage

The response **WSDL message** for the **GetEntitiesForAssociationAndRole WSDL operation**.

The **SOAP body** contains the **GetEntitiesForAssociationAndRoleResponse** element.

3.1.4.44.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesForAssociationAndRole	The input data for the GetEntitiesForAssociationAndRole WSDL operation .
GetEntitiesForAssociationAndRoleResponse	The result data for the GetEntitiesForAssociationAndRole WSDL operation .

3.1.4.44.2.1 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole WSDL operation**.

```
<xs:element name="GetEntitiesForAssociationAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association**.

role: Specifies what **Entities** to be returned. Its value MUST be in the following table.

Value	Description
0	The Entities are sources of the Association .
1	The Entities are destinations of the Association .

activeOnly: This element MUST contain the information about what **Entities** to be returned. If its value is **true**, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: An **empty GUID**.

3.1.4.44.2.2 GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole WSDL operation**.

```
<xs:element name="GetEntitiesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesForAssociationAndRoleResult: The list of **Entities**.

3.1.4.44.3 Complex Types

None.

3.1.4.44.4 Simple Types

None.

3.1.4.44.5 Attributes

None.

3.1.4.44.6 Groups

None.

3.1.4.44.7 Attribute Groups

None.

3.1.4.45 GetEntitiesForSystem

This operation is used to retrieve **Entities** of the specified **LabSystem**.

The following is the **WSDL** port type specification of the **GetEntitiesForSystem WSDL operation**.

```
<wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExeptionState (section 2.2.4.43)	The specified LobSystem does not exist. <55>

3.1.4.45.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage	The request WSDL message for the GetEntitiesForSystem WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage	The response WSDL message for the GetEntitiesForSystem WSDL operation .

3.1.4.45.1.1 BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage

The request **WSDL message** for the **GetEntitiesForSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem
```

The **SOAP body** contains the **GetEntitiesForSystem** element.

3.1.4.45.1.2 BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage

The response **WSDL message** for the **GetEntitiesForSystem WSDL operation**.

The **SOAP body** contains the **GetEntitiesForSystemResponse** element.

3.1.4.45.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesForSystem	The input data for the GetEntitiesForSystem WSDL operation .
GetEntitiesForSystemResponse	The result data for the GetEntitiesForSystem WSDL operation .

3.1.4.45.2.1 GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem WSDL operation**.

```
<xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LoSystem**.

activeOnly: This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: An **empty GUID**.

3.1.4.45.2.2 GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem WSDL operation**.

```
<xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesForSystemResult: The list of **Entities**.

3.1.4.45.3 Complex Types

None.

3.1.4.45.4 Simple Types

None.

3.1.4.45.5 Attributes

None.

3.1.4.45.6 Groups

None.

3.1.4.45.7 Attribute Groups

None.

3.1.4.46 GetEntitiesLikeNameAndNamespace

This operation is used to retrieve the **Entities** that match the specified wildcard patterns for name and namespace.

An **Entity** matches the pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Entity**, or the **localized name** of the **Entity** with **LCID** 0, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.

An **Entity** matches the pattern specified by **wildcardedNamespace** if and only if **wildcardedNamespace** matches the namespace of the **Entity**.

The following is the **WSDL** port type specification of the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The length of the wildcardedName exceeds 255 characters. ▪ The length of the wildcardedNamespace exceeds 255 characters. ▪ The specified wildcardedName is invalid. ▪ The specified wildcardedNamespace is invalid.

3.1.4.46.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage	The request WSDL message for the GetEntitiesLikeNameAndNamespace WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage	The response WSDL message for the GetEntitiesLikeNameAndNa

Message	Description
	mespace WSDL operation.

3.1.4.46.1.1 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage

The request **WSDL message** for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace
```

The **SOAP body** contains the **GetEntitiesLikeNameAndNamespace** element.

3.1.4.46.1.2 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage

The response **WSDL message** for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

The **SOAP body** contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

3.1.4.46.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesLikeNameAndNamespace	The input data for the GetEntitiesLikeNameAndNamespace WSDL operation .
GetEntitiesLikeNameAndNamespaceResponse	The result data for the GetEntitiesLikeNameAndNamespace WSDL operation .

3.1.4.46.2.1 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntitiesLikeNameAndNamespace"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

wildcardedNamespace: The wildcard pattern to be used to retrieve the **Entities** whose namespace matches the wildcard pattern.

Following is the ABNF for the **wildcardedNamespace**:

```
wildcardedNamespace = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the namespace of the **Entities** with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

wildcardedName: The wildcard pattern to be used to retrieve the **Entities** whose name or **localized name** matches the wildcard pattern.

Following is the ABNF for the **wildcardedName**:

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the name or localized name of the **Entities** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The **LCID** representing the locale to be used when retrieving the **JobSystems**.

activeOnly: This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: An **empty GUID**.

3.1.4.46.2.2 GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```

<xs:element name="GetEntitiesLikeNameAndNamespaceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetEntitiesLikeNameAndNamespaceResult: The list of **Entities**.

3.1.4.46.3 Complex Types

None.

3.1.4.46.4 Simple Types

None.

3.1.4.46.5 Attributes

None.

3.1.4.46.6 Groups

None.

3.1.4.46.7 Attribute Groups

None.

3.1.4.47 GetEntitiesReferencedByModelId

This operation is used to retrieve **Entities** which are referenced by the specified **Model**.

The following is the **WSDL** port type specification of the **GetEntitiesReferencedByModelId WSDL operation**.

```

<wsdl:operation name="GetEntitiesReferencedByModelId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Model does not exist. <56>

3.1.4.47.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage	The request WSDL message for the GetEntitiesReferencedByModelId WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage	The response WSDL message for the GetEntitiesReferencedByModelId WSDL operation .

Message	Description
	odelId WSDL operation.

3.1.4.47.1.1 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage

The request **WSDL message** for the **GetEntitiesReferencedByModelId WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId
```

The **SOAP body** contains the **GetEntitiesReferencedByModelId** element.

3.1.4.47.1.2 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage

The response **WSDL message** for the **GetEntitiesReferencedByModelId WSDL operation**.

The **SOAP body** contains the **GetEntitiesReferencedByModelIdResponse** element.

3.1.4.47.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesReferencedByModelId	The input data for the GetEntitiesReferencedByModelId WSDL operation .
GetEntitiesReferencedByModelIdResponse	The result data for the GetEntitiesReferencedByModelId WSDL operation .

3.1.4.47.2.1 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId WSDL operation**.

```
<xs:element name="GetEntitiesReferencedByModelId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" minOccurs="0" name="mode"
type="tns3:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

metadataObjectId: The **MetadataObjectId** of the **Model**.

mode: Specifies which **Entities** to be returned. The value of this element is specified in section 3.1.4.47.4.1.

activeOnly: This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: An **empty GUID**.

3.1.4.47.2.2 GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId WSDL operation**.

```
<xs:element name="GetEntitiesReferencedByModelIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesReferencedByModelIdResult: The list of **Entities**.

3.1.4.47.3 Complex Types

None.

3.1.4.47.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
EntityConstants.EntitiesInModelQuery	Contains a list of Entities to be returned.

3.1.4.47.4.1 EntityConstants.EntitiesInModelQuery

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants>

Specifies which **Entities** to be returned.

```
<xs:simpleType name="EntityConstants.EntitiesInModelQuery"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllEntitiesInModel"/>
    <xs:enumeration value="OwnedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **EntityConstants.EntitiesInModelQuery** simple type.

Value	Meaning
AllEntitiesInModel	Return all Entities referenced by the specified Model .
OwnedEntitiesInModel	Returned Entities MUST be referenced only in the specified Model .
SharedEntitiesInModel	Returned Entities MUST be referenced in the specified Model and in other Models .

3.1.4.47.5 Attributes

None.

3.1.4.47.6 Groups

None.

3.1.4.47.7 Attribute Groups

None.

3.1.4.48 GetEntityById

This operation is used to retrieve the **Entity** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetEntityById WSDL operation**.

```

<wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.48.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityById_InputMessage	The request WSDL message for the GetEntityById WSDL operation .
BusinessDataCatalogSharedService_GetEntityById_OutputMessage	The response WSDL message for the GetEntityById WSDL operation .

3.1.4.48.1.1 BusinessDataCatalogSharedService_GetEntityById_InputMessage

The request **WSDL message** for the **GetEntityById WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById

The **SOAP body** contains the **GetEntityById** element.

3.1.4.48.1.2 BusinessDataCatalogSharedService_GetEntityById_OutputMessage

The response **WSDL message** for the **GetEntityById WSDL operation**.

The **SOAP body** contains the **GetEntityByIdResponse** element.

3.1.4.48.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityById	The input data for the GetEntityById WSDL operation .
GetEntityByIdResponse	The result data for the GetEntityById WSDL operation .

3.1.4.48.2.1 GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById WSDL operation**.

```
<xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

performErrorCheck: The value of this element MUST be ignored if an **Entity** with the specified **MetadataObjectId** exists. If an **Entity** with the specified **MetadataObjectId** does not exist and the value of this element is false, the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.48.2.2 GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById WSDL operation**.

```
<xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

GetEntityByIdResult: The **Entity**.

3.1.4.48.3 Complex Types

None.

3.1.4.48.4 Simple Types

None.

3.1.4.48.5 Attributes

None.

3.1.4.48.6 Groups

None.

3.1.4.48.7 Attribute Groups

None.

3.1.4.49 GetEntityCount

This operation retrieves the number of **Entity** elements that are contained by the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetEntityCount WSDL operation**.

```
<wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityCount_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityCount_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero. <57>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist. <58>

3.1.4.49.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityCount_InputMessage	The request WSDL message for the GetEntityCount WSDL operation .
BusinessDataCatalogSharedService_GetEntityCount_OutputMessage	The response WSDL message for the GetEntityCount WSDL operation .

3.1.4.49.1.1 BusinessDataCatalogSharedService_GetEntityCount_InputMessage

The request **WSDL message** for the **GetEntityCount WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount

The **SOAP body** contains the **GetEntityCount** element.

3.1.4.49.1.2 BusinessDataCatalogSharedService_GetEntityCount_OutputMessage

The response **WSDL message** for the **GetEntityCount WSDL operation**.

The **SOAP body** contains the **GetEntityCountResponse** element.

3.1.4.49.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityCount	The input data for the GetEntityCount WSDL operation .
GetEntityCountResponse	The result data for the GetEntityCount WSDL operation .

3.1.4.49.2.1 GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount WSDL operation**.

```
<xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

partitionId: An **empty GUID**.

3.1.4.49.2.2 GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount WSDL operation**.

```
<xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityCountResult: The number of **Entity** elements contained by the specified **LobSystem**.

3.1.4.49.3 Complex Types

None.

3.1.4.49.4 Simple Types

None.

3.1.4.49.5 Attributes

None.

3.1.4.49.6 Groups

None.

3.1.4.49.7 Attribute Groups

None.

3.1.4.50 GetEntityNameAndNamespacesForAssociationAndRole

This operation is used to retrieve the names and namespaces of **Entities** which are referenced by the specified **Association**. Only **Entities** in the specified association **role** of source or destination are returned.

The following is the **WSDL** port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

```
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
  InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
  OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
  ArgumentExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
  ArgumentNullExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
  ArgumentOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Association does not exist. <59>

3.1.4.50.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage	The request WSDL message for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage	The response WSDL message for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation.

3.1.4.50.1.1 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage

The request **WSDL message** for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole
```

The **SOAP body** contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

3.1.4.50.1.2 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage

The response **WSDL message** for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

The **SOAP body** contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

3.1.4.50.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityNameAndNamespacesForAssociationAndRole	The input data for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .
GetEntityNameAndNamespacesForAssociationAndRoleResponse	The result data for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .

3.1.4.50.2.1 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association** for which the **Entity** information is to be returned.

role: An **unsignedByte** value that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The value of this parameter MUST be listed in the following table.

Possible parameter values:

Value	Description
0	Return information for Entities that are referenced as Association source by the specified Association .
1	Return information for Entities that are referenced as Association destination by the specified Association .

partitionId: An **empty GUID**.

3.1.4.50.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** **WSDL operation**.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespaces: The namespaces of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination.

names: The names of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination. The order of these names MUST correspond to the order of **namespaces**, so that the nth name and the nth namespace together describe the name and namespace of a single **Entity**.

3.1.4.50.3 Complex Types

None.

3.1.4.50.4 Simple Types

None.

3.1.4.50.5 Attributes

None.

3.1.4.50.6 Groups

None.

3.1.4.50.7 Attribute Groups

None.

3.1.4.51 GetEntityWithNameAndNamespace

This operation is used to retrieve the active **Entity** with the specified name and namespace in the specified **Partition**.

The following is the **WSDL** port type specification of the **GetEntityWithNameAndNamespace WSDL operation**.

```
<wsdl:operation name="GetEntityWithNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_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/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_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/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> The specified namespace length exceeds 255 characters. The specified name length exceeds 255 characters.
MetadataObjectNotFoundStateException (section 2.2.4.43)	An active Entity with the specified namespace and name does not exist in the specified Partition.

3.1.4.51.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage	The request WSDL message for the GetEntityWithNameAndNamespace WSDL operation .
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage	The response WSDL message for the GetEntityWithNameAndNamespace WSDL operation .

3.1.4.51.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage

The request **WSDL message** for the **GetEntityWithNameAndNamespace WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace
```

The **SOAP body** contains the **GetEntityWithNameAndNamespace** element.

3.1.4.51.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage

The response **WSDL message** for the **GetEntityWithNameAndNamespace WSDL operation**.

The **SOAP body** contains the **GetEntityWithNameAndNamespaceResponse** element.

3.1.4.51.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityWithNameAndNamespace	The input data for the GetEntityWithNameAndNamespace WSDL operation .
GetEntityWithNameAndNamespaceResponse	The result data for the GetEntityWithNameAndNamespace WSDL operation .

3.1.4.51.2.1 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespace: The namespace of the **Entity** to be returned.

name: The name of the **Entity** to be returned.

partitionId: An **empty GUID**.

3.1.4.51.2.2 GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespaceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityWithNameAndNamespaceResult: The **Entity**.

3.1.4.51.3 Complex Types

None.

3.1.4.51.4 Simple Types

None.

3.1.4.51.5 Attributes

None.

3.1.4.51.6 Groups

None.

3.1.4.51.7 Attribute Groups

None.

3.1.4.52 GetEntityWithNameAndNamespaceAndVersion

This operation is used to retrieve the **Entity** with the specified name, namespace, and version.

The following is the **WSDL** port type specification of the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

```
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> The specified namespace length exceeds 255 characters. The specified name length exceeds 255 characters.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified namespace and name and version does not exist in the specified Partition .

3.1.4.52.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage	The request WSDL message for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage	The response WSDL message for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .

3.1.4.52.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage

The request **WSDL message** for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion
```

The **SOAP body** contains the **GetEntityWithNameAndNamespaceAndVersion** element.

3.1.4.52.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage

The response **WSDL message** for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

The **SOAP body** contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

3.1.4.52.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityWithNameAndNamespaceAndVersion	The input data for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .
GetEntityWithNameAndNamespaceAndVersionResponse	The result data for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .

3.1.4.52.2.1 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersion"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2:Version"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespace: The namespace of the **Entity** to be returned.

name: The name of the **Entity** to be returned.

version: The version of the **Entity** to be returned.

partitionId: An **empty GUID**.

3.1.4.52.2 GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion** **WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityWithNameAndNamespaceAndVersionResult: The **Entity**.

3.1.4.52.3 Complex Types

None.

3.1.4.52.4 Simple Types

None.

3.1.4.52.5 Attributes

None.

3.1.4.52.6 Groups

None.

3.1.4.52.7 Attribute Groups

None.

3.1.4.53 GetFieldTypeDescriptorsByMethodInstance

This operation is used to retrieve **TypeDescriptors** that correspond to **fields** for the **MethodInstance** with the specified name on the specified **Entity**.

The following is the **WSDL** port type specification of the **GetFieldTypeDescriptorsByMethodInstance** **WSDL operation**.

```
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance"
    message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse"
    message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"/>
```

```

name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
InvalidOperationException (section 2.2.4.38)	<p>The MethodInstanceType of the MethodInstance with the specified name on the specified Entity is not equal to any one of the following:</p> <ul style="list-style-type: none"> ▪ Finder ▪ SpecificFinder ▪ IdEnumerator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ BulkSpecificFinder ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ Creator ▪ Updater
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A MethodInstance with the specified name does not exist on the specified Entity .

3.1.4.53.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage	The request WSDL message for the GetFieldTypeDescriptorsByMethodInstance WSDL operation .
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage	The response WSDL message for the GetFieldTypeDescriptorsByMethodInstance WSDL operation.

3.1.4.53.1.1 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage

The request **WSDL message** for the **GetFieldTypeDescriptorsByMethodInstance** **WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance>

The **SOAP body** contains the **GetFieldTypeDescriptorsByMethodInstance** element.

3.1.4.53.1.2 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage

The response **WSDL message** for the **GetFieldTypeDescriptorsByMethodInstance** **WSDL operation**.

The **SOAP body** contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

3.1.4.53.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFieldTypeDescriptorsByMethodInstance	The input data for the GetFieldTypeDescriptorsByMethodInstance WSDL operation .
GetFieldTypeDescriptorsByMethodInstanceResponse	The result data for the GetFieldTypeDescriptorsByMethodInstance WSDL operation .

3.1.4.53.2.1 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance WSDL operation**.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstance"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodName" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodName: The name of the **MethodInstance**.

entityStruct: The **Entity**.

3.1.4.53.2.2 GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance WSDL operation**.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="q5:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFieldTypeDescriptorsByMethodInstanceResult: The list of **TypeDescriptors**.

3.1.4.53.3 Complex Types

None.

3.1.4.53.4 Simple Types

None.

3.1.4.53.5 Attributes

None.

3.1.4.53.6 Groups

None.

3.1.4.53.7 Attribute Groups

None.

3.1.4.54 GetFilterDescriptorById

This operation is used to retrieve the **FilterDescriptor** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetFilterDescriptorById WSDL operation**.

```
<wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A FilterDescriptor with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.54.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage	The request WSDL message for the GetFilterDescriptorById WSDL operation .
BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage	The response WSDL message for the GetFilterDescriptorById WSDL operation .

3.1.4.54.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage

The request **WSDL message** for the **GetFilterDescriptorById WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById>

The **SOAP body** contains the **GetFilterDescriptorById** element.

3.1.4.54.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage

The response **WSDL message** for the **GetFilterDescriptorById WSDL operation**.

The **SOAP body** contains the **GetFilterDescriptorByIdResponse** element.

3.1.4.54.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFilterDescriptorById	The input data for the GetFilterDescriptorById WSDL operation .
GetFilterDescriptorByIdResponse	The result data for the GetFilterDescriptorById WSDL operation .

3.1.4.54.2.1 GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById WSDL operation**.

```
<xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

filterDescriptorId: The **MetadataObjectId** of the **FilterDescriptor**.

performErrorCheck: The value of this element MUST be ignored if a **FilterDescriptor** with the specified **MetadataObjectId** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.54.2.2 GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById WSDL operation**.

```
<xs:element name="GetFilterDescriptorByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="q5:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFilterDescriptorByIdResult: The **FilterDescriptor** that was returned.

3.1.4.54.3 Complex Types

None.

3.1.4.54.4 Simple Types

None.

3.1.4.54.5 Attributes

None.

3.1.4.54.6 Groups

None.

3.1.4.54.7 Attribute Groups

None.

3.1.4.55 GetFilterDescriptorsForMethod

This operation is used to retrieve the **FilterDescriptors** contained by the specified **Method**.

The following is the **WSDL** port type specification of the **GetFilterDescriptorsForMethod WSDL operation**.

```
<wsdl:operation name="GetFilterDescriptorsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetFilterDescriptorsForMethod InvalidOperationExceptionE
xceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataException
StateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the Method is 0. <60>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A Method with the specified MetadataObjectId does not exist. <61>

3.1.4.55.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage	The request WSDL message for the GetFilterDescriptorsForMethod WSDL operation .
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage	The response WSDL message for the GetFilterDescriptorsForMethod WSDL operation .

3.1.4.55.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage

The request **WSDL message** for the **GetFilterDescriptorsForMethod WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod

The **SOAP body** contains the **GetFilterDescriptorsForMethod** element.

3.1.4.55.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage

The response **WSDL message** for the **GetFilterDescriptorsForMethod WSDL operation**.

The **SOAP body** contains the **GetFilterDescriptorsForMethodResponse** element.

3.1.4.55.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFilterDescriptorsForMethod	The input data for the GetFilterDescriptorsForMethod WSDL operation .
GetFilterDescriptorsForMethodResponse	The result data for the GetFilterDescriptorsForMethod WSDL operation .

3.1.4.55.2.1 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod WSDL operation**.

```
<xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method** for which the **FilterDescriptors** are obtained.

partitionId: An **empty GUID**.

3.1.4.55.2.2 GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod WSDL operation**.

```
<xs:element name="GetFilterDescriptorsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetFilterDescriptorsForMethodResult: The list of **FilterDescriptors**.

3.1.4.55.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfFilterDescriptorStruct	Contains a list of FilterDescriptors .

3.1.4.55.3.1 ArrayOfFilterDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of **FilterDescriptors**.

```

<xs:complexType name="ArrayOfFilterDescriptorStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
      nillable="true" type="q5:FilterDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>

```

FilterDescriptorStruct: A FilterDescriptor of a **Method**.

3.1.4.55.4 Simple Types

None.

3.1.4.55.5 Attributes

None.

3.1.4.55.6 Groups

None.

3.1.4.55.7 Attribute Groups

None.

3.1.4.56 GetIdentifierById

This operation is used to retrieve the **Identifier** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetIdentifierById WSDL operation**.

```

<wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetIdentifierById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Identifier with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.56.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetIdentifierById_InputMessage	The request WSDL message for the GetIdentifierById WSDL operation .
BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage	The response WSDL message for the GetIdentifierById WSDL operation .

3.1.4.56.1.1 BusinessDataCatalogSharedService_GetIdentifierById_InputMessage

The request **WSDL message** for the **GetIdentifierById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById
```

The **SOAP body** contains the **GetIdentifierById** element.

3.1.4.56.1.2 BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage

The response **WSDL message** for the **GetIdentifierById WSDL operation**.

The **SOAP body** contains the **GetIdentifierByIdResponse** element.

3.1.4.56.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetIdentifierById	The input data for the GetIdentifierById WSDL operation .
GetIdentifierByIdResponse	The result data for the GetIdentifierById WSDL operation .

3.1.4.56.2.1 GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById WSDL operation**.

```
<xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>  
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

identifierId: The **MetadataObjectId** of the **Identifier**.

performErrorCheck: The value of this element MUST be ignored if an **Identifier** with the specified **MetadataObjectId** exists. If an **Identifier** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.56.2.2 GetIdentifierByIdResponse

The **GetIdentifierByIdResponse** element specifies the result data for the **GetIdentifierById WSDL operation**.

```

<xs:element name="GetIdentifierByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="q5:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetIdentifierByIdResult: The **Identifier** that was returned.

3.1.4.56.3 Complex Types

None.

3.1.4.56.4 Simple Types

None.

3.1.4.56.5 Attributes

None.

3.1.4.56.6 Groups

None.

3.1.4.56.7 Attribute Groups

None.

3.1.4.57 GetIdentifiersForEntity

This operation is used to retrieve the **Identifiers** contained by the specified **Entity**.

The following is the **WSDL** port type specification of the **GetIdentifiersForEntity WSDL operation**.

```

<wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the Entity is 0. <62>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified MetadataObjectId does not exist. <63>

3.1.4.57.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage	The request WSDL message for the GetIdentifiersForEntity WSDL operation .
BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage	The response WSDL message for the GetIdentifiersForEntity WSDL operation .

3.1.4.57.1.1 BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage

The request **WSDL message** for the **GetIdentifiersForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity
```

The **SOAP body** contains the **GetIdentifiersForEntity** element.

3.1.4.57.1.2 BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage

The response **WSDL message** for the **GetIdentifiersForEntity WSDL operation**.

The **SOAP body** contains the **GetIdentifiersForEntityResponse** element.

3.1.4.57.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetIdentifiersForEntity	The input data for the GetIdentifiersForEntity WSDL operation .
GetIdentifiersForEntityResponse	The result data for the GetIdentifiersForEntity WSDL operation .

3.1.4.57.2.1 GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity WSDL operation**.

```

<xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

entityId: The **MetadataObjectId** of the **Entity** for which the **Identifiers** are obtained.

partitionId: An **empty GUID**.

3.1.4.57.2 GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity WSDL operation**.

```

<xs:element name="GetIdentifiersForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="q5:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetIdentifiersForEntityResult: The list of **Identifiers**.

3.1.4.57.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfIdentifierStruct	Contains a list of Identifiers .

3.1.4.57.3.1 ArrayOfIdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of **Identifiers**.

```

<xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="q5:IdentifierStruct"/>
  </xs:sequence>
</xs:complexType>

```

IdentifierStruct: An Identifier of an **Entity**.

3.1.4.57.4 Simple Types

None.

3.1.4.57.5 Attributes

None.

3.1.4.57.6 Groups

None.

3.1.4.57.7 Attribute Groups

None.

3.1.4.58 GetImportProgress

This operation is used to retrieve the progress of an **ImportPackageWithProgress** operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the **WSDL** port type specification of the **GetImportProgress WSDL operation**.

```
<wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetImportProgress_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetImportProgress_OutputMessage** response message.

3.1.4.58.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetImportProgress_InputMessage	The request WSDL message for the GetImportProgress WSDL operation .
BusinessDataCatalogSharedService_GetImportProgress_OutputMessage	The response WSDL message for the GetImportProgress WSDL operation .

3.1.4.58.1.1 BusinessDataCatalogSharedService_GetImportProgress_InputMessage

The request **WSDL message** for the **GetImportProgress WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress
```

The **SOAP body** contains the **GetImportProgress** element.

3.1.4.58.1.2 BusinessDataCatalogSharedService_GetImportProgress_OutputMessage

The response **WSDL message** for the **GetImportProgress WSDL operation**.

The **SOAP body** contains the **GetImportProgressResponse** element.

3.1.4.58.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetImportProgress	The input data for the GetImportProgress WSDL operation .
GetImportProgressResponse	The result data for the GetImportProgress WSDL operation .

3.1.4.58.2.1 GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress WSDL operation**.

```
<xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"  
minOccurs="0" name="jobId" type="ser:guid"/>  
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"  
minOccurs="0" name="partitionId" type="ser:guid"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

jobId: The identifier of the import operation for which the progress is to be retrieved.

partitionId: An **empty GUID**.

3.1.4.58.2.2 GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress WSDL operation**.

```
<xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

GetImportProgressResult: The fraction of the operation that is finished. The value MUST be between 0 and 1 inclusive. The value MUST be 0 if **jobId** is not recognized as a current import job.

3.1.4.58.3 Complex Types

None.

3.1.4.58.4 Simple Types

None.

3.1.4.58.5 Attributes

None.

3.1.4.58.6 Groups

None.

3.1.4.58.7 Attribute Groups

None.

3.1.4.59 GetLevelForTypeDescriptor

This operation retrieves the depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree that contains the specified **TypeDescriptor**. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth 0. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1 plus the depth of the containing **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetLevelForTypeDescriptor WSDL operation**.

```
<wsdl:operation name="GetLevelForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns: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="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified TypeDescriptor is 0. <64>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One of the following conditions applies: <ul style="list-style-type: none"> The specified TypeDescriptor does not exist. <65> The specified TypeDescriptor is not the root of the TypeDescriptor tree and the parent of the specified TypeDescriptor does not exist. An ancestor of the specified TypeDescriptor is not the root of the TypeDescriptor tree that contains the specified TypeDescriptor and the parent of the ancestor does not exist.

3.1.4.59.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage	The request WSDL message for the GetLevelForTypeDescriptor or WSDL operation .
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage	The response WSDL message for the GetLevelForTypeDescriptor or WSDL operation.

3.1.4.59.1.1 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetLevelForTypeDescriptor** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor
```

The **SOAP body** contains the **GetLevelForTypeDescriptor** element.

3.1.4.59.1.2 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetLevelForTypeDescriptor** **WSDL operation**.

The **SOAP body** contains the **GetLevelForTypeDescriptorResponse** element.

3.1.4.59.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLevelForTypeDescriptor	The input data for the GetLevelForTypeDescriptor WSDL operation .
GetLevelForTypeDescriptorResponse	The result data for the GetLevelForTypeDescriptor WSDL operation.

3.1.4.59.2.1 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** **WSDL operation**.

```
<xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

typeDescriptorStruct: The **TypeDescriptor**.

3.1.4.59.2.2 GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor WSDL operation**.

```
<xs:element name="GetLevelForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLevelForTypeDescriptorResult: The depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

3.1.4.59.3 Complex Types

None.

3.1.4.59.4 Simple Types

None.

3.1.4.59.5 Attributes

None.

3.1.4.59.6 Groups

None.

3.1.4.59.7 Attribute Groups

None.

3.1.4.60 GetLobSystemAllAssembliesBytes

This operation is used to retrieve the **Business Logic Modules** associated with the specified **LobSystem**, if the **systemType** element of the specified **LobSystem** does not have the value "Custom". If the **systemType** element of the specified **LobSystem** has the value "Custom", the behavior of this operation is implementation-specific. [<66>](#)

The following is the **WSDL** port type specification of the **GetLobSystemAllAssembliesBytes WSDL operation**.

```
<wsdl:operation name="GetLobSystemAllAssembliesBytes"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read the

Error complex type	Condition
	specified LobSystem.<67>
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified LobSystem is 0.

3.1.4.60.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage	The request WSDL message for the GetLobSystemAllAssembliesBytes WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage	The response WSDL message for the GetLobSystemAllAssembliesBytes WSDL operation .

3.1.4.60.1.1 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage

The request **WSDL message** for the **GetLobSystemAllAssembliesBytes WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes
```

The **SOAP body** contains the **GetLobSystemAllAssembliesBytes** element.

3.1.4.60.1.2 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage

The response **WSDL message** for the **GetLobSystemAllAssembliesBytes WSDL operation**.

The **SOAP body** contains the **GetLobSystemAllAssembliesBytesResponse** element.

3.1.4.60.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemAllAssembliesBytes	The input data for the GetLobSystemAllAssembliesBytes

Element	Description
	WSDL operation.
GetLobSystemAllAssembliesBytesResponse	The result data for the GetLobSystemAllAssembliesBytes WSDL operation.

3.1.4.60.2.1 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes** **WSDL operation**.

```
<xs:element name="GetLobSystemAllAssembliesBytes"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

LobSystemStruct: The **LobSystem**.

3.1.4.60.2.2 GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes** **WSDL operation**.

```
<xs:element name="GetLobSystemAllAssembliesBytesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
        type="q9:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemAllAssembliesBytesResult: The list of **Business Logic Modules**. If the specified **LobSystem** is not associated with any Business Logic Module, this element MUST NOT be present.

3.1.4.60.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfbase64Binary	Contains an array of elements, each containing encoded data.

3.1.4.60.3.1 ArrayOfbase64Binary

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfbase64Binary** complex type MUST be an array of elements, where each element contains data encoded with **base64 encoding**.

```
<xs:complexType name="ArrayOfbase64Binary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
      type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

base64Binary: Data encoded with base64 encoding.

3.1.4.60.4 Simple Types

None.

3.1.4.60.5 Attributes

None.

3.1.4.60.6 Groups

None.

3.1.4.60.7 Attribute Groups

None.

3.1.4.61 GetLobSystemById

This operation retrieves the **LobSystem** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetLobSystemById WSDL operation**.

```
<wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage** response message, unless any one of the conditions in the following table is met. If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: <ul style="list-style-type: none"> The security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId. An LobSystem with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is "false".<68>
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An LobSystem with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.61.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemById_InputMessage	The request WSDL message for the GetLobSystemById WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage	The response WSDL message for the GetLobSystemById WSDL operation .

3.1.4.61.1.1 BusinessDataCatalogSharedService_GetLobSystemById_InputMessage

The request **WSDL message** for the **GetLobSystemById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById
```

The **SOAP body** contains the **GetLobSystemById** element.

3.1.4.61.1.2 BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage

The response **WSDL message** for the **GetLobSystemById WSDL operation**.

The **SOAP body** contains the **GetLobSystemByIdResponse** element.

3.1.4.61.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemById	The input data for the GetLobSystemById WSDL operation .
GetLobSystemByIdResponse	The result data for the GetLobSystemById WSDL operation .

3.1.4.61.2.1 GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById WSDL operation**.

```
<xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem** that will be retrieved.

performErrorCheck: The value of this element MUST be ignored if an **LobSystem** with the specified **MetadataObjectId** exists.

partitionId: An **empty GUID**.

3.1.4.61.2.2 GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById WSDL operation**.

```
<xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemByIdResult: The **LobSystem**. The **partition** of the **LobSystem** MUST be an **empty GUID**.

3.1.4.61.3 Complex Types

None.

3.1.4.61.4 Simple Types

None.

3.1.4.61.5 Attributes

None.

3.1.4.61.6 Groups

None.

3.1.4.61.7 Attribute Groups

None.

3.1.4.62 GetLobSystemByName

This operation is used to retrieve the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemByName WSDL operation**.

```
<wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read<69> the specified LobSystem.
ArgumentException (section 2.2.4.7)	The specified name length exceeds 255 characters.

Error complex type	Condition
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist.

3.1.4.62.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage	The request WSDL message for the GetLobSystemByName WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage	The response WSDL message for the GetLobSystemByName WSDL operation .

3.1.4.62.1.1 BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage

The request **WSDL message** for the **GetLobSystemByName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName
```

The **SOAP body** contains the **GetLobSystemByName** element.

3.1.4.62.1.2 BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage

The response **WSDL message** for the **GetLobSystemByName WSDL operation**.

The **SOAP body** contains the **GetLobSystemByNameResponse** element.

3.1.4.62.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemByName	The input data for the GetLobSystemByName WSDL operation .
GetLobSystemByNameResponse	The result data for the GetLobSystemByName WSDL operation .

3.1.4.62.2.1 GetLobSystemByName

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName WSDL operation**.

```
<xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **LobSystem**.

partitionId: An **empty GUID**.

3.1.4.62.2.2 GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName WSDL operation**.

```
<xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemByNameResult: The **LobSystem** with the specified name.

3.1.4.62.3 Complex Types

None.

3.1.4.62.4 Simple Types

None.

3.1.4.62.5 Attributes

None.

3.1.4.62.6 Groups

None.

3.1.4.62.7 Attribute Groups

None.

3.1.4.63 GetLobSystemDataByLobSystem

This operation is used to retrieve **Business Logic Modules** <70> associated with the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemDataByLobSystem WSDL operation**.

```
<wsdl:operation name="GetLobSystemDataByLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutofRangeE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read the specified LobSystem. <71>
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified LobSystem is 0. <72>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist.

3.1.4.63.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage	The request WSDL message for the GetLobSystemDataByLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage	The response WSDL message for the GetLobSystemDataByLobSystem WSDL operation .

3.1.4.63.1.1 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage

The request **WSDL message** for the **GetLobSystemDataByLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem
```

The **SOAP body** contains the **GetLobSystemDataByLobSystem** element.

3.1.4.63.1.2 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage

The response **WSDL message** for the **GetLobSystemDataByLobSystem WSDL operation**.

The **SOAP body** contains the **GetLobSystemDataByLobSystemResponse** element.

3.1.4.63.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemDataByLobSystem	The input data for the GetLobSystemDataByLobSystem WSDL operation .
GetLobSystemDataByLobSystemResponse	The result data for the GetLobSystemDataByLobSystem WSDL operation .

3.1.4.63.2.1 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem WSDL operation**.

```
<xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**.

3.1.4.63.2.2 GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem WSDL operation**.

```
<xs:element name="GetLobSystemDataByLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemDataByLobSystemResult: The information about the **Business Logic Modules** [<73>](#) associated with the specified **LobSystem**.

3.1.4.63.3 Complex Types

None.

3.1.4.63.4 Simple Types

None.

3.1.4.63.5 Attributes

None.

3.1.4.63.6 Groups

None.

3.1.4.63.7 Attribute Groups

None.

3.1.4.64 GetLobSystemInstanceById

This operation is used to retrieve the **LobSystemInstance** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetLobSystemInstanceById WSDL operation**.

```
<wsdl:operation name="GetLobSystemInstanceById"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns: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/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId. ▪ An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is "false".<74>
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.64.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage	The request WSDL message for the GetLobSystemInstanceById WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage	The response WSDL message for the GetLobSystemInstanceById WSDL operation .

3.1.4.64.1.1 BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage

The request **WSDL message** for the **GetLobSystemInstanceById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById
```

The **SOAP body** contains the **GetLobSystemInstanceById** element.

3.1.4.64.1.2 BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage

The response **WSDL message** for the **GetLobSystemInstanceById WSDL operation**.

The **SOAP body** contains the **GetLobSystemInstanceByIdResponse** element.

3.1.4.64.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemInstanceById	The input data for the GetLobSystemInstanceById WSDL operation .
GetLobSystemInstanceByIdResponse	The result data for the GetLobSystemInstanceById WSDL operation .

3.1.4.64.2.1 GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById WSDL operation**.

```
<xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

lobSystemInstanceId: The **MetadataObjectId** of the **LobSystemInstance**.

performErrorCheck: The value of this element MUST be ignored if a **LobSystemInstance** with the specified **MetadataObjectId** exists.

partitionId: An **empty GUID**.

3.1.4.64.2.2 GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById WSDL operation**.

```

<xs:element name="GetLobSystemInstanceByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="q5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLobSystemInstanceByIdResult: The **LobSystemInstance**.

3.1.4.64.3 Complex Types

None.

3.1.4.64.4 Simple Types

None.

3.1.4.64.5 Attributes

None.

3.1.4.64.6 Groups

None.

3.1.4.64.7 Attribute Groups

None.

3.1.4.65 GetLobSystemInstancesForLobSystem

This operation is used to retrieve the list of **LobSystemInstances** of the specified **LobSystem**. Only the **LobSystemInstances** that the **security principal (2)** in whose context the protocol client is operating is authorized to read [<75>](#) are returned.

The following is the **WSDL** port type specification of the **GetLobSystemInstancesForLobSystem** **WSDL operation**.

```
<wsdl:operation name="GetLobSystemInstancesForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <76>
MetadataObjectNotFoundStateException (section 2.2.4.43)	The specified LobSystem does not exist. <77>

3.1.4.65.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage	The request WSDL message for the GetLobSystemInstancesForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage	The response WSDL message for the GetLobSystemInstancesForLobSystem WSDL operation .

3.1.4.65.1.1 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage

The request **WSDL message** for the **GetLobSystemInstancesForLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem
```

The **SOAP body** contains the **GetLobSystemInstancesForLobSystem** element.

3.1.4.65.1.2 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage

The response **WSDL message** for the **GetLobSystemInstancesForLobSystem WSDL operation**.

The **SOAP body** contains the **GetLobSystemInstancesForLobSystemResponse** element.

3.1.4.65.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemInstancesForLobSystem	The input data for the

Element	Description
	GetLobSystemInstancesForLobSystem WSDL operation.
GetLobSystemInstancesForLobSystemResponse	The result data for the GetLobSystemInstancesForLobSystem WSDL operation.

3.1.4.65.2.1 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

partitionId: An **empty GUID**.

3.1.4.65.2.2 GetLobSystemInstancesForLobSystemResponse

The **GetLobSystemInstancesForLobSystemResponse** element specifies the result data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemInstancesForLobSystemResult: The list of **LobSystemInstances** of the specified **LobSystem**.

3.1.4.65.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfLobSystemInstanceStruct	Contains a list of LobSystemInstances .

3.1.4.65.3.1 ArrayOfLobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type is a list of complex types, each of which represents an **LobSystemInstance**.

```
<xs:complexType name="ArrayOfLobSystemInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="q5:LobSystemInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

LobSystemInstanceStruct: A complex type that represents an **LobSystemInstance**.

3.1.4.65.4 Simple Types

None.

3.1.4.65.5 Attributes

None.

3.1.4.65.6 Groups

None.

3.1.4.65.7 Attribute Groups

None.

3.1.4.66 GetLobSystemProxyAssemblyBytesByLobSystemId

This operation is used to retrieve the implementation-specific **Business Logic Module** [<78>](#) associated with the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** **WSDL operation**.

```
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inp
utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Out
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
    name="ArgumentExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read<79> the specified LobSystem.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified LobSystem is 0.
InvalidMetadataPropertyExceptionState (section 2.2.4.37)	The specified LobSystem has an invalid value for the Property named

Error complex type	Condition
	"SystemUtilityTypeName". The validity of this Property is specified in section 3.1.4.82.2.2 .
MetadataObjectNotFoundStateException (section 2.2.4.43)	The specified LobSystem does not exist.

3.1.4.66.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage	The request WSDL message for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage	The response WSDL message for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .

3.1.4.66.1.1 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage

The request **WSDL message** for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId
```

The **SOAP body** contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

3.1.4.66.1.2 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage

The response **WSDL message** for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

The **SOAP body** contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

3.1.4.66.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemProxyAssemblyBytesByLobSystemId	The input data for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .
GetLobSystemProxyAssemblyBytesByLobSystemIdResponse	The result data for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .

3.1.4.66.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem** to retrieve the implementation-specific **Business Logic Module** from.

3.1.4.66.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemProxyAssemblyBytesByLobSystemIdResult: The bytes of the implementation-specific **Business Logic Module** ^{<80>} associated with the specified **LobSystem**. If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the bytes of the first defined Business Logic Module as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23. If no Business Logic Module is found for the specified **LobSystem**, this element MUST be NULL.

3.1.4.66.3 Complex Types

None.

3.1.4.66.4 Simple Types

None.


```

edService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName MetadataExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The length of the specified wildcard pattern exceeds 255 characters. ▪ The format of the specified wildcard pattern is invalid.

3.1.4.67.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage	The request WSDL message for the GetLobSystemsLikeName WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage	The response WSDL message for the GetLobSystemsLikeName WSDL operation .

3.1.4.67.1.1 BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage

The request **WSDL message** for the **GetLobSystemsLikeName WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName

```

The **SOAP body** contains the **GetLobSystemsLikeName** element.

3.1.4.67.1.2 BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage

The response **WSDL message** for the **GetLobSystemsLikeName WSDL operation**.

The **SOAP body** contains the **GetLobSystemsLikeNameResponse** element.

3.1.4.67.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemsLikeName	The input data for the GetLobSystemsLikeName WSDL operation .
GetLobSystemsLikeNameResponse	The result data for the GetLobSystemsLikeName WSDL operation .

3.1.4.67.2.1 GetLobSystemsLikeName

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName WSDL operation**.

```
<xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

searchLikeName: The wildcard pattern to be used to retrieve the **LobSystems** whose name or **localized name** matches the wildcard pattern. Following is the ABNF for the **searchLikeName**:

```
searchLikeName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **LobSystems** with the value of **searchLikeName** when the **EscapeBackSlash**, **EscapeWildcard** and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The **LCID** representing the locale to be used when retrieving the **LobSystems**.

partitionId: An **empty GUID**.

3.1.4.67.2.2 GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName WSDL operation**.

```
<xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemsLikeNameResult: The list of **LobSystems**.

3.1.4.67.3 Complex Types

None.

3.1.4.67.4 Simple Types

None.

3.1.4.67.5 Attributes

None.

3.1.4.67.6 Groups

None.

3.1.4.67.7 Attribute Groups

None.

3.1.4.68 GetLobSystemsReferencedByEntitiesAssociatedWithModel

This operation is used to retrieve the **LobSystems** that the **security principal (2)** in whose context the protocol client is operating is authorized to read [82](#) that are referenced by **Entities** associated with the specified **Model**.

The following is the **WSDL** port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

```
<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFal
t" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <83>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Model

Error complex type	Condition
	does not exist. <84>

3.1.4.68.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage	The request WSDL message for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage	The response WSDL message for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .

3.1.4.68.1.1 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage

The request **WSDL message** for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

The **SOAP action** value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel`

The **SOAP body** contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

3.1.4.68.1.2 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage

The response **WSDL message** for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

The **SOAP body** contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

3.1.4.68.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemsReferencedByEntitiesAssociatedWithModel	The input data for the GetLobSystemsReferencedByEntitiesAssociated

Element	Description
	edWithModel WSDL operation.
GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse	The result data for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation.

3.1.4.68.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation.**

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="queryMode"
type="tns3:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelId: The **MetadataObjectId** for the specified **Model**.

queryMode: The mode which specifies the **LobSystems** to be retrieved. The value MUST be an **LobSystemConstants.LobSystemsInModelQuery** (section [3.1.4.68.4.1](#)).

partitionId: An **empty GUID**.

3.1.4.68.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation.**

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemsReferencedByEntitiesAssociatedWithModelResult: The list of **LobSystems**.

3.1.4.68.3 Complex Types

None.

3.1.4.68.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
LobSystemConstants.LobSystemsInModelQuery	Specifies the mode in which to retrieve LobSystems .

3.1.4.68.4.1 LobSystemConstants.LobSystemsInModelQuery

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode which determines the **LobSystems** to be retrieved.

```
<xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllLobSystemsInModel"/>
    <xs:enumeration value="OwnedLobSystemsInModel"/>
    <xs:enumeration value="SharedLobSystemsInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **LobSystemConstants.LobSystemsInModelQuery** simple type.

Value	Meaning
AllLobSystemsInModel	All LobSystems referenced by the specified Model .
OwnedLobSystemsInModel	LobSystems referenced only by the specified Model . The returned LobSystems MUST NOT include LobSystems that are referenced by other Models .
SharedLobSystemsInModel	LobSystems referenced by the specified Model and by other Models . The returned LobSystems MUST NOT include LobSystems that are referenced only by the specified Model .

3.1.4.68.5 Attributes

None.

3.1.4.68.6 Groups

None.

3.1.4.68.7 Attribute Groups

None.

3.1.4.69 GetMethodById

This operation is used to retrieve the **Method** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetMethodById WSDL operation**.

```
<wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A Method with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.69.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodById_InputMessage	The request WSDL message for the GetMethodById WSDL operation .
BusinessDataCatalogSharedService_GetMethodById_OutputMessage	The response WSDL message for the GetMethodById WSDL operation .

3.1.4.69.1.1 BusinessDataCatalogSharedService_GetMethodById_InputMessage

The request **WSDL message** for the **GetMethodById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById
```

The **SOAP body** contains the **GetMethodById** element.

3.1.4.69.1.2 BusinessDataCatalogSharedService_GetMethodById_OutputMessage

The response **WSDL message** for the **GetMethodById WSDL operation**.

The **SOAP body** contains the **GetMethodByIdResponse** element.

3.1.4.69.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodById	The input data for the GetMethodById WSDL operation .
GetMethodByIdResponse	The result data for the GetMethodById WSDL operation .

3.1.4.69.2.1 GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById WSDL operation**.

```
<xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>  
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

methodId: The **MetadataObjectId** of the **Method**.

performErrorCheck: The value of this element MUST be ignored if a **Method** with the specified **MetadataObjectId** exists. If **Method** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.69.2.2 GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById WSDL operation**.

```

<xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="q5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetMethodByIdResult: The **Method**.

3.1.4.69.3 Complex Types

None.

3.1.4.69.4 Simple Types

None.

3.1.4.69.5 Attributes

None.

3.1.4.69.6 Groups

None.

3.1.4.69.7 Attribute Groups

None.

3.1.4.70 GetMethodInstanceById

This operation is used to retrieve the **MethodInstance** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetMethodInstanceById WSDL operation**.

```

<wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A MethodInstance with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.70.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage	The request WSDL message for the GetMethodInstanceById WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage	The response WSDL message for the GetMethodInstanceById WSDL operation .

3.1.4.70.1.1 BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage

The request **WSDL message** for the **GetMethodInstanceById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById
```

The **SOAP body** contains the **GetMethodInstanceById** element.

3.1.4.70.1.2 BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage

The response **WSDL message** for the **GetMethodInstanceById WSDL operation**.

The **SOAP body** contains the **GetMethodInstanceByIdResponse** element.

3.1.4.70.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstanceById	The input data for the GetMethodInstanceById WSDL operation .
GetMethodInstanceByIdResponse	The result data for the GetMethodInstanceById WSDL operation .

3.1.4.70.2.1 GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById WSDL operation**.

```

<xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

methodInstanceId: The **MetadataObjectId** for the **MethodInstance**.

performErrorCheck: The value of this element MUST be ignored if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and value of this element is false, the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.70.2.2 GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById WSDL operation**.

```

<xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetMethodInstanceByIdResult: The **MethodInstance**.

3.1.4.70.3 Complex Types

None.

3.1.4.70.4 Simple Types

None.

3.1.4.70.5 Attributes

None.

3.1.4.70.6 Groups

None.

3.1.4.70.7 Attribute Groups

None.

3.1.4.71 GetMethodInstancesForDataClass

This operation is used to retrieve the **MethodInstances** contained by the **Methods** contained by the specified **DataClass**.

The following is the **WSDL** port type specification of the **GetMethodInstancesForDataClass WSDL operation**.

```
<wsdl:operation name="GetMethodInstancesForDataClass"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified DataClass does not exist. <85>

3.1.4.71.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage	The request WSDL message for the GetMethodInstancesForDataClass WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage	The response WSDL message for the GetMethodInstancesForDataClass WSDL operation .

3.1.4.71.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage

The request **WSDL message** for the **GetMethodInstancesForDataClass WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass
```

The **SOAP body** contains the **GetMethodInstancesForDataClass** element.

3.1.4.71.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage

The response **WSDL message** for the **GetMethodInstancesForDataClass WSDL operation**.

The **SOAP body** contains the **GetMethodInstancesForDataClassResponse** element.

3.1.4.71.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstancesForDataClass	The input data for the GetMethodInstancesForDataClass

Element	Description
	WSDL operation.
GetMethodInstancesForDataClassResponse	The result data for the GetMethodInstancesForDataClass WSDL operation.

3.1.4.71.2.1 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass** **WSDL operation**.

```
<xs:element name="GetMethodInstancesForDataClass"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** for the **DataClass**.

partitionId: An **empty GUID**.

3.1.4.71.2.2 GetMethodInstancesForDataClassResponse

The **GetMethodInstancesForDataClassResponse** element specifies the result data for the **GetMethodInstancesForDataClass** **WSDL operation**.

```
<xs:element name="GetMethodInstancesForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstancesForDataClassResult: The list of **MethodInstances**.

3.1.4.71.3 Complex Types

None.

3.1.4.71.4 Simple Types

None.

3.1.4.71.5 Attributes

None.

3.1.4.71.6 Groups

None.

3.1.4.71.7 Attribute Groups

None.

3.1.4.72 GetMethodInstancesForMethod

This operation is used to retrieve the **MethodInstances** contained by the specified **Method**.

The following is the **WSDL** port type specification of the **GetMethodInstancesForMethod WSDL operation**.

```
<wsdl:operation name="GetMethodInstancesForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExeptionState (section 2.2.4.43)	The specified Method does not exist. <86>

3.1.4.72.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage	The request WSDL message for the GetMethodInstancesForMethod WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage	The response WSDL message for the GetMethodInstancesForMethod WSDL operation .

3.1.4.72.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage

The request **WSDL message** for the **GetMethodInstancesForMethod WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod
```

The **SOAP body** contains the **GetMethodInstancesForMethod** element.

3.1.4.72.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage

The response **WSDL message** for the **GetMethodInstancesForMethod WSDL operation**.

The **SOAP body** contains the **GetMethodInstancesForMethodResponse** element.

3.1.4.72.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstancesForMethod	The input data for the GetMethodInstancesForMethod WSDL operation .
GetMethodInstancesForMethodResponse	The result data for the GetMethodInstancesForMethod WSDL operation .

3.1.4.72.2.1 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod WSDL operation**.

```
<xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** for the **Method**.

partitionId: An **empty GUID**.

3.1.4.72.2.2 GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod WSDL operation**.

```
<xs:element name="GetMethodInstancesForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstancesForMethodResult: The list of **MethodInstances**.

3.1.4.72.3 Complex Types

None.

3.1.4.72.4 Simple Types

None.

3.1.4.72.5 Attributes

None.

3.1.4.72.6 Groups

None.

3.1.4.72.7 Attribute Groups

None.

3.1.4.73 GetMethodsForDataClass

This operation is used to retrieve the **Methods** contained by the specified **DataClass**.

The following is the **WSDL** port type specification of the **GetMethodsForDataClass WSDL operation**.

```
<wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <87>
MetadataObjectNotFoundExeptionState (section 2.2.4.43)	The specified DataClass does not exist. <88>

3.1.4.73.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage	The request WSDL message for the GetMethodsForDataClasses WSDL operation .
BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage	The response WSDL message for the GetMethodsForDataClasses WSDL operation .

3.1.4.73.1.1 BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage

The request **WSDL message** for the **GetMethodsForDataClass WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass
```

The **SOAP body** contains the **GetMethodsForDataClass** element.

3.1.4.73.1.2 BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage

The response **WSDL message** for the **GetMethodsForDataClass WSDL operation**.

The **SOAP body** contains the **GetMethodsForDataClassResponse** element.

3.1.4.73.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodsForDataClass	The input data for the GetMethodsForDataClass WSDL operation .
GetMethodsForDataClassResponse	The result data for the GetMethodsForDataClass WSDL operation .

3.1.4.73.2.1 GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass WSDL operation**.

```
<xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**.

partitionId: An **empty GUID**.

3.1.4.73.2.2 GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass WSDL operation**.

```
<xs:element name="GetMethodsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="q5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodsForDataClassResult: The list of **Methods**.

3.1.4.73.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfMethodStruct	Contains a list of Methods .

3.1.4.73.3.1 ArrayOfMethodStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of **Methods**.

```
<xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
      type="q5:MethodStruct"/>
  </xs:sequence>
</xs:complexType>
```

MethodStruct: The element contains information about a Method.

3.1.4.73.4 Simple Types

None.

3.1.4.73.5 Attributes

None.

3.1.4.73.6 Groups

None.

3.1.4.73.7 Attribute Groups

None.

3.1.4.74 GetModelById

This operation is used to retrieve the **Model** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetModelById WSDL operation**.

```
<wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
    message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A Model with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.74.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelById_InputMessage	The request WSDL message for the GetModelById WSDL operation .
BusinessDataCatalogSharedService_GetModelById_OutputMessage	The response WSDL message for the GetModelById WSDL operation .

3.1.4.74.1.1 BusinessDataCatalogSharedService_GetModelById_InputMessage

The request **WSDL message** for the **GetModelById WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById

The **SOAP body** contains the **GetModelById** element.

3.1.4.74.1.2 BusinessDataCatalogSharedService_GetModelById_OutputMessage

The response **WSDL message** for the **GetModelById WSDL operation**.

The **SOAP body** contains the **GetModelByIdResponse** element.

3.1.4.74.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelById	The input data for the GetModelById WSDL operation .
GetModelByIdResponse	The result data for the GetModelById WSDL operation .

3.1.4.74.2.1 GetModelById

The **GetModelById** element specifies the input data for the **GetModelById WSDL operation**.

```
<xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelId: The **MetadataObjectId** for the **Model**.

performErrorCheck: The value of this element MUST be ignored if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.74.2.2 GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById WSDL operation**.

```
<xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetModelByName BdcExceptionStateFault FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelByName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	The length of the specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Model does not exist.

3.1.4.75.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelByName_InputMessage	The request WSDL message for the GetModelByName WSDL operation .
BusinessDataCatalogSharedService_GetModelByName_OutputMessage	The response WSDL message for the GetModelByName WSDL operation .

3.1.4.75.1.1 BusinessDataCatalogSharedService_GetModelByName_InputMessage

The request **WSDL message** for the **GetModelByName WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName

The **SOAP body** contains the **GetModelByName** element.

3.1.4.75.1.2 BusinessDataCatalogSharedService_GetModelByName_OutputMessage

The response **WSDL message** for the **GetModelByName WSDL operation**.

The **SOAP body** contains the **GetModelByNameResponse** element.

3.1.4.75.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelByName	The input data for the GetModelByName WSDL operation .
GetModelByNameResponse	The result data for the GetModelByName WSDL operation .

3.1.4.75.2.1 GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName WSDL operation**.

```
<xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **Model**.

partitionId: The **empty GUID**.

3.1.4.75.2.2 GetModelByNameResponse

The **GetModelByNameResponse** element specifies the result data for the **GetModelByName WSDL operation**.

```
<xs:element name="GetModelByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelByNameResult: The **Model**.

3.1.4.75.3 Complex Types

None.

3.1.4.75.4 Simple Types

None.

3.1.4.75.5 Attributes

None.

3.1.4.75.6 Groups

None.

3.1.4.75.7 Attribute Groups

None.

3.1.4.76 GetModelsByEntityId

This operation is used to retrieve the **Models** that reference the specified **Entity**.

The following is the **WSDL** port type specification of the **GetModelsByEntityId WSDL operation**.

```
<wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist. <89>

3.1.4.76.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage	The request WSDL message for the GetModelsByEntityId WSDL operation .
BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage	The response WSDL message for the GetModelsByEntityId WSDL operation .

3.1.4.76.1.1 BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage

The request **WSDL message** for the **GetModelsByEntityId WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ModelsByEntityId

```

The **SOAP body** contains the **GetModelsByEntityId** element.

3.1.4.76.1.2 BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage

The response **WSDL message** for the **GetModelsByEntityId WSDL operation**.

The **SOAP body** contains the **GetModelsByEntityIdResponse** element.

3.1.4.76.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelsByEntityId	The input data for the GetModelsByEntityId WSDL operation .
GetModelsByEntityIdResponse	The result data for the GetModelsByEntityId WSDL operation .

3.1.4.76.2.1 GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId WSDL operation**.

```
<xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

partitionId: An **empty GUID**.

3.1.4.76.2.2 GetModelsByEntityIdResponse

The **GetModelsByEntityIdResponse** element specifies the result data for the **GetModelsByEntityId WSDL operation**.

```
<xs:element name="GetModelsByEntityIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="q5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelsByEntityIdResult: The list of **Models**.

3.1.4.76.3 Complex Types

None.

3.1.4.76.4 Simple Types

None.

3.1.4.76.5 Attributes

None.

3.1.4.76.6 Groups

None.

3.1.4.76.7 Attribute Groups

None.

3.1.4.77 GetModelsByName

This operation is used to retrieve the **Models** that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Model**, or the **localized name** of the **Model** with **LCID 0**, or the localized name of the **Model** with the LCID specified by **callerCultureLcid**.

The following is the **WSDL** port type specification of the **GetModelsByName WSDL operation**.

```
<wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The length of the specified wildcard pattern exceeds 255 characters. ▪ The format of the specified wildcard pattern is invalid.

3.1.4.77.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelsByName_InputMessage	The request WSDL message for the GetModelsByName WSDL operation .
BusinessDataCatalogSharedService_GetModelsByName_OutputMessage	The response WSDL message for the GetModelsByName WSDL operation .

3.1.4.77.1.1 BusinessDataCatalogSharedService_GetModelsByName_InputMessage

The request **WSDL message** for the **GetModelsByName WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName

```

The **SOAP body** contains the **GetModelsByName** element.

3.1.4.77.1.2 BusinessDataCatalogSharedService_GetModelsByName_OutputMessage

The response **WSDL message** for the **GetModelsByName WSDL operation**.

The **SOAP body** contains the **GetModelsByNameResponse** element.

3.1.4.77.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelsByName	The input data for the GetModelsByName WSDL operation .
GetModelsByNameResponse	The result data for the GetModelsByName WSDL operation .

3.1.4.77.2.1 GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName WSDL operation**.

```
<xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

wildcardedName: The wildcard pattern to be used to retrieve the **Models** whose name or **localized name** matches the wildcard pattern. Following is the ABNF for the **wildcardedName**:

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **Models** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The **LCID** representing the locale to be used when retrieving the **Models**.

partitionId: An **empty GUID**.

3.1.4.77.2 GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName WSDL operation**.

```
<xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="q5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelsByNameResult: The list of **Models**.

3.1.4.77.3 Complex Types

None.

3.1.4.77.4 Simple Types

None.

3.1.4.77.5 Attributes

None.

3.1.4.77.6 Groups

None.

3.1.4.77.7 Attribute Groups

None.

3.1.4.78 GetParameterById

This operation is used to retrieve the **Parameter** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetParameterById WSDL operation**.

```
<wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetParameterById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetParameterById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataobjectNotFoundExceptionState (section 2.2.4.43)	A Parameter with the specified MetadataObjectId does not exist and the value of performErrorCheck element is true .

3.1.4.78.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetParameterById_InputMessage	The request WSDL message for the GetParameterById WSDL operation .
BusinessDataCatalogSharedService_GetParameterById_OutputMessage	The response WSDL message

Message	Description
	for the GetParameterById WSDL operation.

3.1.4.78.1.1 BusinessDataCatalogSharedService_GetParameterById_InputMessage

The request **WSDL message** for the **GetParameterById** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById
```

The **SOAP body** contains the **GetParameterById** element.

3.1.4.78.1.2 BusinessDataCatalogSharedService_GetParameterById_OutputMessage

The response **WSDL message** for the **GetParameterById** **WSDL operation**.

The **SOAP body** contains the **GetParameterByIdResponse** element.

3.1.4.78.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetParameterById	The input data for the GetParameterById WSDL operation .
GetParameterByIdResponse	The result data for the GetParameterById WSDL operation.

3.1.4.78.2.1 GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById** **WSDL operation**.

```
<xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** of the **Parameter**.

performErrorCheck: The value of this element MUST be ignored if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and

value of this element is **false**, the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.78.2 GetParameterByIdResponse

The **GetParameterByIdResponse** element specifies the result data for the **GetParameterById WSDL operation**.

```
<xs:element name="GetParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParameterByIdResult: The **Parameter**.

3.1.4.78.3 Complex Types

None.

3.1.4.78.4 Simple Types

None.

3.1.4.78.5 Attributes

None.

3.1.4.78.6 Groups

None.

3.1.4.78.7 Attribute Groups

None.

3.1.4.79 GetParametersForMethod

This operation is used to retrieve the **Parameters** of the specified **Method**.

The following is the **WSDL** port type specification of the **GetParametersForMethod WSDL operation**.

```
<wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethod"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <90>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Method does not exist. <91>

3.1.4.79.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage	The request WSDL message for the GetParametersForMethod WSDL operation .
BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage	The response WSDL message for the GetParametersForMethod WSDL operation .

3.1.4.79.1.1 BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage

The request **WSDL message** for the **GetParametersForMethod WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod
```

The **SOAP body** contains the **GetParametersForMethod** element.

3.1.4.79.1.2 BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage

The response **WSDL message** for the **GetParametersForMethod WSDL operation**.

The **SOAP body** contains the **GetParametersForMethodResponse** element.

3.1.4.79.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetParametersForMethod	The input data for the GetParametersForMethod WSDL operation .
GetParametersForMethodResponse	The result data for the GetParametersForMethod WSDL operation .

3.1.4.79.2.1 GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod WSDL operation**.

```
<xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method**.

partitionId: An **empty GUID**.

3.1.4.79.2 GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod WSDL operation**.

```
<xs:element name="GetParametersForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="q5:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParametersForMethodResult: The list of **Parameters**.

3.1.4.79.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfParameterStruct	Contains a list of Parameters .

3.1.4.79.3.1 ArrayOfParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of **Parameters**.

```
<xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="q5:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ParameterStruct: A Parameter.

3.1.4.79.4 Simple Types

None.

3.1.4.79.5 Attributes

None.

3.1.4.79.6 Groups

None.

3.1.4.79.7 Attribute Groups

None.

3.1.4.80 GetRootTypeDescriptorForParameter

This operation is used to retrieve the **root TypeDescriptor** of the specified **Parameter**.

The following is the **WSDL** port type specification of the **GetRootTypeDescriptorForParameter WSDL operation**.

```
<wsdl:operation name="GetRootTypeDescriptorForParameter"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExpectionState (section 2.2.4.43)	The specified Parameter does not exist.

3.1.4.80.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage	The request WSDL message for the GetRootTypeDescriptorForParameter WSDL operation .
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage	The response WSDL message for the GetRootTypeDescriptorForParameter WSDL operation .

3.1.4.80.1.1 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage

The request **WSDL message** for the **GetRootTypeDescriptorForParameter WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter
```

The **SOAP body** contains the **GetRootTypeDescriptorForParameter** element.

3.1.4.80.1.2 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage

The response **WSDL message** for the **GetRootTypeDescriptorForParameter WSDL operation**.

The **SOAP body** contains the **GetRootTypeDescriptorForParameterResponse** element.

3.1.4.80.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetRootTypeDescriptorForParameter	The input data for the GetRootTypeDescriptorForParameter WSDL operation .
GetRootTypeDescriptorForParameterResponse	The result data for the GetRootTypeDescriptorForParameter WSDL operation .

3.1.4.80.2.1 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter WSDL operation**.

```
<xs:element name="GetRootTypeDescriptorForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** of the **Parameter**.

partitionId: An **empty GUID**.

3.1.4.80.2.2 GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter WSDL operation**.

```
<xs:element name="GetRootTypeDescriptorForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetRootTypeDescriptorForParameterResult: The **root TypeDescriptor** of the **Parameter**.

3.1.4.80.3 Complex Types

None.

3.1.4.80.4 Simple Types

None.

3.1.4.80.5 Attributes

None.

3.1.4.80.6 Groups

None.

3.1.4.80.7 Attribute Groups

None.

3.1.4.81 GetServiceApplicationId

This operation is used to retrieve the unique implementation-specific identifier of **metadata store**.

The following is the **WSDL** port type specification of the **GetServiceApplicationId WSDL operation**.

```
<wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId"
    message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage** response message.

3.1.4.81.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage	The request WSDL message for the GetServiceApplicationId WSDL operation .
BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage	The response WSDL message for the GetServiceApplicationId WSDL operation .

3.1.4.81.1.1 BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage

The request **WSDL message** for the **GetServiceApplicationId WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId
```

The **SOAP body** contains the **GetServiceApplicationId** element.

3.1.4.81.1.2 BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage

The response **WSDL message** for the **GetServiceApplicationId WSDL operation**.

The **SOAP body** contains the **GetServiceApplicationIdResponse** element.

3.1.4.81.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetServiceApplicationId	The input data for the GetServiceApplicationId WSDL operation .
GetServiceApplicationIdResponse	The result data for the GetServiceApplicationId WSDL operation .

3.1.4.81.2.1 GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId WSDL operation**.

```
<xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence/>  
  </xs:complexType>  
</xs:element>
```

3.1.4.81.2.2 GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId WSDL operation**.

```
<xs:element name="GetServiceApplicationIdResponse"  
  xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"  
        minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

GetServiceApplicationIdResult: The unique implementation-specific identifier of **metadata store**. The value of the identifier MUST be a **GUID**.

3.1.4.81.3 Complex Types

None.

3.1.4.81.4 Simple Types

None.

3.1.4.81.5 Attributes

None.

3.1.4.81.6 Groups

None.

3.1.4.81.7 Attribute Groups

None.

3.1.4.82 GetSystemUtilityTypeNameForLobSystem

This operation is used to retrieve the implementation-specific identifier of the module that executes operations in the **line-of-business (LOB) system** corresponding to the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

```
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOpe
rationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	The module cannot be found or loaded.
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
InvalidMetadataPropertyExceptionState (section 2.2.4.37)	The specified LobSystem has an invalid value for the Property named "SystemUtilityTypeName". Validity of this Property is specified in section 3.1.4.82.2.2 .

3.1.4.82.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage	The request WSDL message for the GetSystemUtilityTypeNameForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage	The response WSDL message for the GetSystemUtilityTypeNameForLobSystem WSDL operation .

3.1.4.82.1.1 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage

The request **WSDL message** for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem
```

The **SOAP body** contains the **GetSystemUtilityTypeNameForLobSystem** element.

3.1.4.82.1.2 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage

The response **WSDL message** for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

The **SOAP body** contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

3.1.4.82.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetSystemUtilityTypeNameForLobSystem	The input data for the GetSystemUtilityTypeNameForLobSystem WSDL operation .
GetSystemUtilityTypeNameForLobSystemResponse	The result data for the GetSystemUtilityTypeNameForLobSystem WSDL operation .

3.1.4.82.2.1 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**.

3.1.4.82.2.2 GetSystemUtilityTypeNameForLobSystemResponse


```

edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById ArgumentNullExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById ArgumentOutofRangeExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById MetadataExceptionStateFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding server error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A TypeDescriptor with the specified MetadataObjectId does not exist and the value of the performErrorCheck element is true .

3.1.4.83.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage	The request WSDL message for the GetTypeDescriptorById WSDL operation .
BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage	The response WSDL message for the

Message	Description
	GetTypeDescriptorById WSDL operation.

3.1.4.83.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage

The request **WSDL message** for the **GetTypeDescriptorById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById
```

The **SOAP body** contains the **GetTypeDescriptorById** element.

3.1.4.83.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorById WSDL operation**.

The **SOAP body** contains the **GetTypeDescriptorByIdResponse** element.

3.1.4.83.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorById	The input data for the GetTypeDescriptorById WSDL operation .
GetTypeDescriptorByIdResponse	The result data for the GetTypeDescriptorById WSDL operation .

3.1.4.83.2.1 GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById WSDL operation**.

```
<xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor**.

performErrorCheck: The value of this element MUST be ignored if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

partitionId: An **empty GUID**.

3.1.4.83.2.2 GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById** **WSDL operation**.

```
<xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorByIdResult: The **TypeDescriptor**.

3.1.4.83.3 Complex Types

None.

3.1.4.83.4 Simple Types

None.

3.1.4.83.5 Attributes

None.

3.1.4.83.6 Groups

None.

3.1.4.83.7 Attribute Groups

None.

3.1.4.84 GetTypeDescriptorsByNameAndLevelForParameter

This operation SHOULD [<93>](#) retrieve the **TypeDescriptors** with the specified name and level contained by the specified **Parameter**. The level of a **TypeDescriptor** is defined as follows:

- The level of the root **TypeDescriptor** is 0.
- The level of specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter** **WSDL operation**.

```
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ou
tputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Bd
cExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Me
tadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	One of the following conditions applies: <ul style="list-style-type: none"> The specified MetadataObjectId is 0. The specified level is less than 0.

3.1.4.84.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage	The request WSDL message for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage	The response WSDL message for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .

3.1.4.84.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage

The request **WSDL message** for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter
```

The **SOAP body** contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

3.1.4.84.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

The **SOAP body** contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

3.1.4.84.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorsByNameAndLevelForParameter	The input data for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .
GetTypeDescriptorsByNameAndLevelForParameterResponse	The result data for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .

3.1.4.84.2.1 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="level" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **TypeDescriptors** that are retrieved.

parameterId: The **MetadataObjectId** of the **Parameter**.

level: The level of the TypeDescriptors that are retrieved. [<94>](#)

partitionId: An **empty GUID**.

3.1.4.84.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorsByNameAndLevelForParameterResult: The list of **TypeDescriptors**.

3.1.4.84.3 Complex Types

None.

3.1.4.84.4 Simple Types

None.

3.1.4.84.5 Attributes

None.

3.1.4.84.6 Groups

None.

3.1.4.84.7 Attribute Groups

None.

3.1.4.85 GetTypeDescriptorsForFilterDescriptor

This operation is used to retrieve **TypeDescriptors** referenced by the specified **FilterDescriptor**.

The following is the **WSDL** port type specification of the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

```
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentE
xceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentN
ullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentO
utOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId of the FilterDescriptor is 0.

3.1.4.85.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage	The request WSDL message for the GetTypeDescriptorsForFilterDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage	The response WSDL message for the GetTypeDescriptorsForFilterDescriptor WSDL operation .

3.1.4.85.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage

The request **WSDL message** for the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor

```

The **SOAP body** contains the **GetTypeDescriptorsForFilterDescriptor** element.

3.1.4.85.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor or_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

The **SOAP body** contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

3.1.4.85.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorsForFilterDescriptor	The input data for the GetTypeDescriptorsForFilterDescriptor WSDL operation .
GetTypeDescriptorsForFilterDescriptorResponse	The result data for the GetTypeDescriptorsForFilterDescriptor WSDL operation .

3.1.4.85.2.1 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

filterDescriptorId: The **MetadataObjectId** of the **FilterDescriptor**.

partitionId: An **empty GUID**.

3.1.4.85.2.2 GetTypeDescriptorsForFilterDescriptorResponse

The **GetTypeDescriptorsForFilterDescriptorResponse** element specifies the result data for the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorsForFilterDescriptorResult: The list of **TypeDescriptors** that are referenced by the specified **FilterDescriptor**.

3.1.4.85.3 Complex Types

None.

3.1.4.85.4 Simple Types

None.

3.1.4.85.5 Attributes

None.

3.1.4.85.6 Groups

None.

3.1.4.85.7 Attribute Groups

None.

3.1.4.86 GetTypeReflectorTypeNameForParameter

This operation is used to retrieve the implementation-specific name of the type of the **TypeReflector** of the specified **Parameter**.

The following is the **WSDL** port type specification of the **GetTypeReflectorTypeNameForParameter WSDL operation**.

```
<wsdl:operation name="GetTypeReflectorTypeNameForParameter"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOpe
rationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	The type specified by a type name of the TypeReflector of the specified Parameter is invalid according to the protocol server's implementation-specific rules.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified Parameter is 0.

3.1.4.86.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage	The request WSDL message for the GetTypeReflectorTypeNameForParameter WSDL operation .
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage	The response WSDL message for the GetTypeReflectorTypeNameForParameter WSDL operation .

3.1.4.86.1.1 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage

The request **WSDL message** for the **GetTypeReflectorTypeNameForParameter WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter
```

The **SOAP body** contains the **GetTypeReflectorTypeNameForParameter** element.

3.1.4.86.1.2 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage

The response **WSDL message** for the **GetTypeReflectorTypeNameForParameter WSDL operation**.

The **SOAP body** contains the **GetTypeReflectorTypeNameForParameterResponse** element.

3.1.4.86.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeReflectorTypeNameForParameter	The input data for the GetTypeReflectorTypeNameForParameter WSDL operation .
GetTypeReflectorTypeNameForParameterResponse	The result data for the GetTypeReflectorTypeNameForParameter WSDL operation .

3.1.4.86.2.1 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter WSDL operation**.

```
<xs:element name="GetTypeReflectorTypeNameForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterStruct: The **Parameter** for which the type name of the **TypeReflector** will be retrieved.

3.1.4.86.2.2 GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** **WSDL operation**.

```
<xs:element name="GetTypeReflectorTypeNameForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
        nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeReflectorTypeNameForParameterResult: The implementation-specific name of the type of the **TypeReflector** of the specified **Parameter**.

3.1.4.86.3 Complex Types

None.

3.1.4.86.4 Simple Types

None.

3.1.4.86.5 Attributes

None.

3.1.4.86.6 Groups

None.

3.1.4.86.7 Attribute Groups

None.

3.1.4.87 GetXmlSchemaForView

This operation is used to retrieve an **XML schema definition (XSD)** that specifies a data structure that can store the data corresponding to a **View** that corresponds to the specified **MethodInstance**. The resulting XSD MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The following types of **MethodInstance** have a **View** corresponding to them:

- **SpecificFinder**
- **BulkSpecificFinder**
- **Finder**
- **AssociationNavigator**
- **BulkAssociationNavigator**
- **IdEnumerator**
- **ChangedIdEnumerator**
- **DeletedIdEnumerator**

- **BulkIdEnumerator**
- **Creator**
- **Updater**

The MethodInstances of any other type do not have a View associated with them.

The following is the **WSDL** port type specification of the **GetXmlSchemaForView WSDL operation**.

```
<wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (section 2.2.4.7)	The specified MethodInstance does not have a View .<95>
ArgumentNullException (section 2.2.4.8)	The specified MethodInstance does not have a ReturnTypeDescriptor and it is not an Updater or a Creator.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is greater than 0x7fffffff.
BdcExceptionState (section 2.2.4.25)	The specified MethodInstance does not exist.

3.1.4.87.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage	The request WSDL message for the GetXmlSchemaForView WSDL operation .
BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage	The response WSDL message for the GetXmlSchemaForView WSDL operation .

3.1.4.87.1.1 BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage

The request **WSDL message** for the **GetXmlSchemaForView WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView
```

The **SOAP body** contains the **GetXmlSchemaForView** element.

3.1.4.87.1.2 BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage

The response **WSDL message** for the **GetXmlSchemaForView WSDL operation**.

The **SOAP body** contains the **GetXmlSchemaForViewResponse** element.

3.1.4.87.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetXmlSchemaForView	The input data for the GetXmlSchemaForView WSDL operation .
GetXmlSchemaForViewResponse	The result data for the GetXmlSchemaForView WSDL operation .

3.1.4.87.2.1 GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView WSDL operation**.

```
<xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodInstanceStruct: The **MethodInstance**.

3.1.4.87.2.2 GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView WSDL operation**.

```
<xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetXmlSchemaForViewResult: A string that contains the resulting **XML schema**. The XML schema MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The **XML namespace** specified by the XML schema is implementation-specific<96>. The XML schema MUST specify the **root element** that corresponds to the **View**. The name the root element MUST be equal to the name of the **View**. The root element MUST contain exactly one **XML element** for each of the **fields** in the **View**. The XML element is declared based on the **TypeDescriptors** that correspond to fields. For each **TypeDescriptor** the corresponding XML element MUST be declared as follows:

- The name of the corresponding XML element MUST be equal to the name of the **TypeDescriptor**.
- If the **TypeDescriptor** contains one or more other **TypeDescriptors**, the corresponding XML element MUST be declared as a **complex type** that contains XML elements that correspond to **TypeDescriptors** contained by the **TypeDescriptor**.
- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** can be represented by a **simple type**, the corresponding XML element MUST

be declared as that simple type. For example, if the data type represents a bit, the corresponding XML element is declared as "Boolean" simple type as specified in [XMLSCHEMA2] section 3.2.2.

- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** cannot be represented by a simple type, the corresponding XML element SHOULD be declared as a complex type that contains a single XML element as specified in [XMLSCHEMA0] section 5.5. However, if the data type represented by the **TypeDescriptor** can be represented by a set of simple types, the corresponding XML element MAY be declared as a complex type that contains XML elements to represent the set of simple types.
- If the **TypeDescriptor** is contained by another **TypeDescriptor** which has the **IsCollection** flag set to **true**, the value of the "maxOccurs" attribute as specified in [XMLSCHEMA1] section 3.3.2 MUST be "unbounded". Otherwise, the value MUST be 1.

XML elements corresponding to **TypeDescriptors** MUST contain the following annotations as specified in [XMLSCHEMA1] section 3.13. The XML elements MAY also contain additional implementation-specific annotations, or additional implementation-specific **XML attributes** for the XML elements that represent the annotations specified in this section. The XML namespace of the XML elements that correspond to annotations are implementation-specific. <97>

- If the **TypeDescriptor** has the **ReadOnly** flag set to **true**, the XML element MUST contain an annotation with name "FieldInfo", which has an XML attribute with name "ReadOnly" and value **true**.
- If the **TypeDescriptor** references an **Identifier**, and the **TypeDescriptor** references an **Association**, the XML element MUST contain an annotation with name "ForeignKeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the Entity that contains the Identifier referenced by the TypeDescriptor .
EntityName	The name of the Entity that contains the Identifier referenced by the TypeDescriptor .
IdentifierIndex	The index of the Identifier referenced by the TypeDescriptor , within the Entity that contains the Identifier .
AssociationName	The name of the Association referenced by the TypeDescriptor

- If the **TypeDescriptor** references an **Identifier**, and the **TypeDescriptor** does not reference an **Association**, the XML element MUST contain an annotation with name "KeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the Entity that contains the Identifier referenced by the TypeDescriptor .
EntityName	The name of the Entity that contains the Identifier referenced by the TypeDescriptor .
IdentifierIndex	The index of the Identifier referenced by the TypeDescriptor , within the Entity that contains the Identifier .

- If the **TypeDescriptor** contains **localized names**, the XML element MUST contain an annotation with name "LocalizedNames". The XML element that represents the annotation MUST contain XML

elements with name "LocalizedName" for each localized name contained by the **TypeDescriptor**. The value of the "LocalizedName" element MUST be the localized name, and it MUST have an XML attribute with name "LCID" and the **LCID** of the localized name as the value.

- If the **TypeDescriptor** has a **DefaultValue** for the specified **MethodInstance**, and data type of the **DefaultValue** can be represented by a simple type, the XML element MUST contain an annotation with name "DefaultValue" and the data of **DefaultValue** as the value.

3.1.4.87.3 Complex Types

None.

3.1.4.87.4 Simple Types

None.

3.1.4.87.5 Attributes

None.

3.1.4.87.6 Groups

None.

3.1.4.87.7 Attribute Groups

None.

3.1.4.88 HaveRights

The **HaveRights** operation retrieves whether the **security principal (2)** in whose context the protocol client is operating has the specified permission on the specified **MetadataObject** based on the permissions specified by the **ACEs** in the specified **Setting** associated with the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **HaveRights WSDL operation**.

```
<wsdl:operation name="HaveRights" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns:BusinessDataCatalogSharedService_HaveRights_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService_HaveRights_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_HaveRights_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_HaveRights_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.88.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_HaveRights_InputMessage	The request WSDL message for the HaveRights WSDL operation .
BusinessDataCatalogSharedService_HaveRights_OutputMessage	The response WSDL message for the HaveRights WSDL operation .

3.1.4.88.1.1 BusinessDataCatalogSharedService_HaveRights_InputMessage

The request **WSDL message** for the **HaveRights WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **HaveRights** element.

3.1.4.88.1.2 BusinessDataCatalogSharedService_HaveRights_OutputMessage

The response **WSDL message** for the **HaveRights WSDL operation**.

The **SOAP body** contains the **HaveRightsResponse** element.

3.1.4.88.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
HaveRights	The input data for the HaveRights WSDL operation .
HaveRightsResponse	The result data for the HaveRights WSDL operation .

3.1.4.88.2.1 HaveRights

The **HaveRights** element specifies the input data for the **HaveRights WSDL operation**.

```
<xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q1:BdcRights"/>
      <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be an **empty GUID**.

rights: The permission to check.

fallBack: When the value of this element is **true**, the protocol server MUST use the **ACEs** in the default **Setting** for the specified **MetadataObject** if there are no ACEs exist in the specified **Setting** for the specified **MetadataObject**.

settingId: The **Setting** which contains the ACEs. If the value of this element is NULL the protocol server MUST use the ACEs contained by the default **Setting**.

3.1.4.88.2.2 HaveRightsResponse

The **HaveRightsResponse** element specifies the result data for the **HaveRights WSDL operation**.

```

<xs:element name="HaveRightsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

HaveRightsResult: If the **security principal (2)** in whose context the protocol client is operating has the specified permissions, this value **MUST** be set to TRUE. Otherwise, this value **MUST** be set to FALSE.

3.1.4.88.3 Complex Types

None.

3.1.4.88.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
BdcRights	Specifies the permission given a security principal (1) on a MetadataObject .

3.1.4.88.4.1 BdcRights

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given **security principal (2)** can have on a **MetadataObject**.

```

<xs:simpleType name="BdcRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Execute"/>
        <xs:enumeration value="Edit"/>
        <xs:enumeration value="SetPermissions"/>
        <xs:enumeration value="UseInBusinessDataInLists"/>
        <xs:enumeration value="SelectableInClients"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```

The following table specifies the allowable values for the **BdcRights** simple type.

Value	Meaning
None	No permissions.
Execute	The security principal (2) has the permission to call a MethodInstance .
Edit	The security principal (2) has permission to change the attributes of a MetadataObject or its relationship to other MetadataObjects .

Value	Meaning
SetPermissions	The security principal (2) has permission to change the set of permissions for a MetadataObject .
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal (2) has permission to select the MetadataObject this permission refers to in an implementation-specific user interface from a list of available MetadataObjects . If the security principal (2) does not have this permission, the MetadataObject SHOULD NOT be presented in such a list.

3.1.4.88.5 Attributes

None.

3.1.4.88.6 Groups

None.

3.1.4.88.7 Attribute Groups

None.

3.1.4.89 ImportPackage

This operation is used to create the following objects in the **metadata store**:

- **MetadataObjects** contained by the specified **MetadataModel** along with their properties, **localized names** and **ACEs**, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as **XML** that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains an **LobSystem** that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all **LobSystemInstances** contained by that **LobSystem** along with properties, localized names and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

The following is the **WSDL** port type specification of the **ImportPackage WSDL operation**.

```
<wsdl:operation name="ImportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage"
    message="tns:BusinessDataCatalogSharedService ImportPackage InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackage_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackage_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to create or modify the specified Model .
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: <ul style="list-style-type: none"> The "Model" value is specified for the packageContents element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. The "Model" value is not specified for the

Error complex type	Condition
	<p>packageContents element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28.</p> <ul style="list-style-type: none"> ▪ The value of the updateModel element is "false", the "Model" value is specified for packageContents element and there is already another Model with the same name as the Model contained by the MetadataModel in the specified Partition. ▪ The value of the updateModel element is "true", the "Model" value is specified for packageContents element and the Model contained by the MetadataModel does not exist in the specified Partition. ▪ The "Model" value is not specified for the packageContents element and at least one the MetadataObjects contained by the MetadataModel does not exist in the metadata store. ▪ The "Model" value is specified for the packageContents element and one of the LobSystems contained by the MetadataModel has the same name as an LobSystem in the metadata store, but the LobSystem contained by the MetadataModel has a different type than the LobSystem in the metadata store. ▪ The "Model" value is specified for the packageContents element and one of the Entities contained by the MetadataModel has the same name, namespace and version as an Entity in the metadata store, but the names of the LobSystems that contain these Entities are not identical. ▪ The "InlineProxies" value is specified for the packageContents element and the specified MetadataModel contains LobSystem with an associated Business Logic Module. ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a StreamAccessor that specifies 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

Error complex type	Condition
	<p>containing the Entity which contains this StreamAccessor has type specified as "Database".</p> <ul style="list-style-type: none"> ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose Direction is "In" or "InOut" and the type of the this MethodInstance, is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance is not contain a TimeStampFilter and the type of this MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

3.1.4.89.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ImportPackage_InputMessage	The request WSDL message for the ImportPackage WSDL operation .
BusinessDataCatalogSharedService_ImportPackage_OutputMessage	The response WSDL message for the ImportPackage WSDL operation .

3.1.4.89.1.1 BusinessDataCatalogSharedService_ImportPackage_InputMessage

The request **WSDL message** for the **ImportPackage WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage
```

The **SOAP body** contains the **ImportPackage** element.

3.1.4.89.1.2 BusinessDataCatalogSharedService_ImportPackage_OutputMessage

The response **WSDL message** for the **ImportPackage WSDL operation**.

The **SOAP body** contains the **ImportPackageResponse** element.

3.1.4.89.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ImportPackage	The input data for the ImportPackage WSDL operation .
ImportPackageResponse	The result data for the ImportPackage WSDL operation .

3.1.4.89.2.1 ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage WSDL operation**.

```
<xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

</xs:element>

xml: The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the **metadata store**. The protocol server MUST set all the **Entities** contained by the specified **MetadataModel** as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any Entity contained by the specified **MetadataModel** as active.
- If "Model" value is not specified the protocol server MUST NOT create any **MetadataObjects**.

If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified **Setting** for the **MetadataObject**, the Property in the metadata store MUST be replaced.

- If the "Properties" value is not specified the protocol server MUST ignore Properties in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same **LCID** in the specified Setting for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST delete **ACEs** in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

adminStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**.

settingId: The **Setting** to create the Properties, localized names, and ACEs in.

callerCultureLcid: Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server MUST remove all Entity references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored.

3.1.4.89.2.2 ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage WSDL operation**.

```

<xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

ImportPackageResult: The **Model** from the **metadata store** that is corresponding to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

3.1.4.89.3 Complex Types

None.

3.1.4.89.4 Simple Types

None.

3.1.4.89.5 Attributes

None.

3.1.4.89.6 Groups

None.

3.1.4.89.7 Attribute Groups

None.

3.1.4.90 ImportPackageWithProgress

This operation is used to create the following objects in the **metadata store**:

- **MetadataObjects** contained by the specified **MetadataModel** along with their **Properties**, **localized names** and **ACEs**, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as **XML** that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains an **LobSystem** that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all **LobSystemInstances** contained by that **LobSystem** along with properties, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element.

The **MetadataModel** MUST be specified as an XML that conforms to [MS-BDCMFFS] section 2.2.3.28.

The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the **GetImportProgress** operation with the specified identifier.

The following is the **WSDL** port type specification of the **ImportPackageWithProgress WSDL operation**.

```
<wsdl:operation name="ImportPackageWithProgress"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to create or modify the specified Model .
PackageFormatExceptionState (section 2.2.4.48)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The "Model" value is specified for the packageContents element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. ▪ The "Model" value is not specified for the packageContents element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28. ▪ The value of the updateModel element is "false", the "Model" value is specified for packageContents element and there is already another Model with the same name as the Model contained by the MetadataModel in the specified Partition. ▪ The value of the updateModel element is "true", the "Model" value is specified for packageContents element and the Model contained by the MetadataModel does not exist in the specified Partition. ▪ The "Model" value is not specified for the packageContents element and at least one the MetadataObjects contained by the MetadataModel does not exist in the metadata store. ▪ The "Model" value is specified for the packageContents element and one of the LobSystems contained by the MetadataModel has the same name as an LobSystem in the metadata store, but the LobSystem contained by the MetadataModel has a different type than the LobSystem in the metadata store. ▪ The "Model" value is specified for the packageContents element and one of the Entities contained by the MetadataModel has the same name, namespace and version as an Entity in the metadata store, but the names of the LobSystems that contain these Entities are not identical. ▪ The "InlineProxies" value is specified for the packageContents element and the specified

Error complex type	Condition
	<p>MetadataModel contains LobSystem with an associated Business Logic Module.</p> <ul style="list-style-type: none"> ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a StreamAccessor and the TypeDescriptor containing the ReturnTypeDescriptor of this MethodInstance contains another TypeDescriptor under its parent TypeDescriptor, and the LobSystem containing the Entity which contains this StreamAccessor has type specified as "Database". ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose Direction is "In" or "InOut" and the type of the this MethodInstance, is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ StreamAccessor ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance is not contain a TimeStampFilter and the type of this MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

3.1.4.90.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage	The request WSDL message for the ImportPackageWithProgress WSDL operation .
BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage	The response WSDL message for the ImportPackageWithProgress WSDL operation .

3.1.4.90.1.1 BusinessDataCatalogSharedService_ImportPackageWithProgress_Input Message

The request **WSDL message** for the **ImportPackageWithProgress WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress
```

The **SOAP body** contains the **ImportPackageWithProgress** element.

3.1.4.90.1.2 BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage

The response **WSDL message** for the **ImportPackageWithProgress WSDL operation**.

The **SOAP body** contains the **ImportPackageWithProgressResponse** element.

3.1.4.90.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ImportPackageWithProgress	The input data for the ImportPackageWithProgress WSDL operation .
ImportPackageWithProgressResponse	The result data for the ImportPackageWithProgress WSDL operation .

3.1.4.90.2.1 ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress WSDL operation**.

```
<xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the metadata store. The protocol server MUST set all the **Entities** contained by the specified **MetadataModel** as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
- If "Model" value is not specified the protocol server MUST NOT create any **MetadataObjects**.
- If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified **Setting** for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.

- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

adminStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**.

settingId: The **Setting** in which to create the **Properties**, localized names, and ACEs.

callerCultureLcid: Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored.

jobId: Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

3.1.4.90.2.2 ImportPackageWithProgressResponse

The **ImportPackageWithProgressResponse** element specifies the result data for the **ImportPackageWithProgress** **WSDL operation**.

```
<xs:element name="ImportPackageWithProgressResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ImportPackageWithProgressResult: The **Model** from the **metadata store** that is corresponding to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

3.1.4.90.3 Complex Types

None.

3.1.4.90.4 Simple Types

None.

3.1.4.90.5 Attributes

None.

3.1.4.90.6 Groups

None.

3.1.4.90.7 Attribute Groups

None.

3.1.4.91 IsMethodInstantiated

This operation is used to determine if the specified **Method** contains at least one **MethodInstance**.

The following is the **WSDL** port type specification of the **IsMethodInstantiated WSDL operation**.

```
<wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage** response message.

3.1.4.91.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage	The request WSDL message for the IsMethodInstantiated WSDL operation .
BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage	The response WSDL message for the IsMethodInstantiated WSDL operation .

3.1.4.91.1.1 BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage

The request **WSDL message** for the **IsMethodInstantiated WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated
```

The **SOAP body** contains the **IsMethodInstantiated** element.

3.1.4.91.1.2 BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage

The response **WSDL message** for the **IsMethodInstantiated WSDL operation**.

The **SOAP body** contains the **IsMethodInstantiatedResponse** element.

3.1.4.91.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
IsMethodInstantiated	The input data for the IsMethodInstantiated WSDL operation .
IsMethodInstantiatedResponse	The result data for the IsMethodInstantiated WSDL operation .

3.1.4.91.2.1 IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated WSDL operation**.

```
<xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** for the **Method**.

partitionId: An **empty GUID**.

3.1.4.91.2.2 IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated WSDL operation**.

```
<xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsMethodInstantiatedResult: The value of this element MUST be "true", if the **Method** contains at least one **MethodInstance**. Otherwise it MUST be set to "false".

3.1.4.91.3 Complex Types

None.

3.1.4.91.4 Simple Types

None.

3.1.4.91.5 Attributes

None.

3.1.4.91.6 Groups

None.

3.1.4.91.7 Attribute Groups

None.

3.1.4.92 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified **Parameter** contains any **TypeDescriptor** that is the **ReturnTypeDescriptor** of any **MethodInstance** contained by the **Method** containing the **Parameter**.

The following is the **WSDL** port type specification of the **IsParameterReferencedByMethodInstance WSDL operation**.

```
<wsdl:operation name="IsParameterReferencedByMethodInstance"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified Parameter is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Parameter does not exist.

3.1.4.92.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage	The request WSDL message for the IsParameterReferencedByMethodInstance WSDL operation .
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage	The response WSDL message for the IsParameterReferencedByMethodInstance WSDL operation .

3.1.4.92.1.1 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage

The request **WSDL message** for the **IsParameterReferencedByMethodInstance WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance
```

The **SOAP body** contains the **IsParameterReferencedByMethodInstance** element.

3.1.4.92.1.2 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage

The response **WSDL message** for the **IsParameterReferencedByMethodInstance WSDL operation**.

The **SOAP body** contains the **IsParameterReferencedByMethodInstanceResponse** element.

3.1.4.92.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
IsParameterReferencedByMethodInstance	The input data for the IsParameterReferencedByMethodInstance WSDL operation .
IsParameterReferencedByMethodInstanceResponse	The result data for the IsParameterReferencedByMethodInstance WSDL operation .

3.1.4.92.2.1 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance WSDL operation**.

```
<xs:element name="IsParameterReferencedByMethodInstance"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** for the **Parameter**.

partitionId: An **empty GUID**.

3.1.4.92.2.2 IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance WSDL operation**.

```
<xs:element name="IsParameterReferencedByMethodInstanceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
        type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsParameterReferencedByMethodInstanceResult: If the value of this element is **true**, the specified **Parameter** contains a **ReturnTypeDescriptor**. If the value of this element is **false**, the specified **Parameter** does not contain a **ReturnTypeDescriptor**. [<98>](#)

3.1.4.92.3 Complex Types

None.

3.1.4.92.4 Simple Types

None.

3.1.4.92.5 Attributes

None.

3.1.4.92.6 Groups

None.

3.1.4.92.7 Attribute Groups

None.

3.1.4.93 MetadataObjectCreate

This operation is used to create a **MetadataObject** in the **metadata store**. If the specified **MetadataObject** is a **MetadataCatalog**, and another **MetadataCatalog** with the same **Partition** as the specified **MetadataCatalog** already exists, then this operation MUST NOT change the state of the data in the metadata store.

The following is the **WSDL** port type specification of the **MetadataObjectCreate WSDL operation**.

```
<wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The rawValues element specifies an LobSystem and the security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the parentStruct element. ▪ The rawValues element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the parentStruct element. ▪ The rawValues element specifies an Identifier and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The rawValues element specifies an Action and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The rawValues element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity that contains the Action specified by the parentStruct element. ▪ The rawValues element specifies a Method and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The rawValues element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is

Error complex type	Condition
	<p>operating is not authorized to modify the Entity specified by the parentStruct element.</p> <ul style="list-style-type: none"> ▪ The rawValues element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element. ▪ The rawValues element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element. ▪ The rawValues element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element. ▪ The rawValues element specifies an Association and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity containing the Method specified by the parentStruct element.
<p>ArgumentException (section 2.2.4.7)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The rawValues element specifies a MetadataObject with invalid attributes. ▪ The rawValues element specifies a MethodInstance that specifies a ReturnTypeDescriptor that is not contained by any Parameters that are contained by the Method specified by the parentStruct element. ▪ The rawValues element specifies a MethodInstance that specifies a ReturnTypeDescriptor that is contained by a Parameter with direction "In". ▪ The rawValues element specifies a MethodInstance that does not specify a ReturnTypeDescriptor and the type of the specified MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ Scalar ▪ SpecificFinder ▪ StreamAccessor ▪ The rawValues element specifies a MethodInstance that has a ReturnTypeDescriptor with isCollection element value set to "false" in the typeDescriptorFlags element, and the type of the specified MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ Finder ▪ IdEnumerator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ BulkSpecificFinder ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ The rawValues element specifies a MethodInstance that has a ReturnTypeDescriptor with isCollection element value set to "true" in the typeDescriptorFlags element and the type of the specified MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ SpecificFinder ▪ Scalar ▪ AccessChecker ▪ Creator ▪ StreamAccessor ▪ The rawValues element specifies a MethodInstance that has a ReturnTypeDescriptor that contains other TypeDescriptors, and the type of the specified MethodInstance is "StreamAccessor". ▪ The rawValues element specifies a MethodInstance and the TypeDescriptor that

Error complex type	Condition
	<p>contains the ReturnPropertyDescriptor 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.</p> <ul style="list-style-type: none"> ▪ The rawValues element specifies a MethodInstance, and the Method specified by the parentStruct element does not contain a TimeStampFilter, and the type of the specified MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ The rawValues element specifies a MethodInstance that requires an input but the Method specified by parentStruct does not contain any Parameters with direction "In" or "InOut". ▪ The rawValues element specifies a FilterDescriptor of type TimeStampFilter, but the Method specified by the parentStruct already contains a TimeStampFilter. ▪ The rawValues element specifies a Parameter with direction "Return" but the Method specified by parentStruct already contains another Parameter with direction "Return". ▪ The rawValues element specifies an Association and the same Entity is specified as a source of the Association more than once.
BdcExceptionState (section 2.2.4.25)	The MetadataObject specified in rawValues element is an Entity or a TypeDescriptor .
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The rawValues element specifies an LobSystem and another LobSystem with the same name already exists in the metadata store. ▪ The rawValues element specifies a MethodInstance and the DataClass, which contains the Method specified by the parentStruct element, already contains another Method that contains a MethodInstance with the same name as the specified MethodInstance. ▪ The rawValues element specifies an Association and the DataClass, which contains the Method specified by the parentStruct element, already contains another Method that contains an Association with the same name as the specified

Error complex type	Condition
	<p>Association.</p> <ul style="list-style-type: none"> On the server, if two threads are calling the same function at the same time, and the rawValues element of both threads specifies a MetadataCatalog with the same Partition, then one thread can cause the server to respond with a DuplicateMetadataObjectExceptionState exception. The MetadataObject specified by the parentStruct element already contains another MetadataObject that has same name and type as the MetadataObject specified by the rawValues element.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> The MetadataObject specified by the parentStruct element already contains the implementation-specific maximum number of MetadataObjects that have the same type as the MetadataObject specified by the rawValues element. The rawValues element specifies a MethodInstance that is of type IdEnumerator, AccessChecker, Deleter, ChangedIdEnumerator, DeletedIdEnumerator, or BulkIdEnumerator, but the DataClass containing the Method specified by the parentStruct element already has another MethodInstance of the same type.
InvalidOperationException (section 2.2.4.38)	The MetadataObject specified by the parentStruct is contained by an active Entity .<99>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> 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.

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to creating the **MetadataObject** in the metadata store.

MetadataObject	Action
Identifier	Set the "OrdinalNumber" attribute of the created Identifier to 1 plus the maximum value of "OrdinalNumber" attributes of all the Identifiers contained by the Entity specified by the parentStruct element.

MetadataObject	Action
Parameter	Set the "OrdinalNumber" attribute of the created Parameter to 1 plus the maximum value of "OrdinalNumber" attributes of all the Parameters contained by the Method specified by the parentStruct element.
MethodInstance	Set the IsDefault attributes of all other MethodInstances of type equal to the type of the created MethodInstance within the DataClass that contains the Method specified by the parentStruct element to false , if the IsDefault attribute is true on the created MethodInstance . If the IsDefault attribute is false on the created MethodInstance , and the DataClass that contains the Method specified by the parentStruct element does not contain any other MethodInstance that has the type equal to the type of the created MethodInstance , the protocol server MUST set the IsDefault attribute of the created MethodInstance to true . Copy the ACEs from the Entity that contains the Method specified by the parentStruct to the created MethodInstance .
LobSystem	Copy the ACEs from the MetadataCatalog specified by the parentStruct to the created LobSystem .
Model	Copy the ACEs from the MetadataCatalog specified by the parentStruct to the created Model .
Method	Copy the ACEs from the Entity specified by the parentStruct to the created Method .

3.1.4.93.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage	The request WSDL message for the MetadataObjectCreate WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage	The response WSDL message for the MetadataObjectCreate WSDL operation .

3.1.4.93.1.1 BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage

The request **WSDL message** for the **MetadataObjectCreate WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **MetadataObjectCreate** element.

3.1.4.93.1.2 BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage

The response **WSDL message** for the **MetadataObjectCreate WSDL operation**.

The **SOAP body** contains the **MetadataObjectCreateResponse** element.

3.1.4.93.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectCreate	The input data for the MetadataObjectCreate WSDL operation .
MetadataObjectCreateResponse	The result data for the MetadataObjectCreate WSDL operation .

3.1.4.93.2.1 MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate WSDL operation**.

```
<xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: Specifies the **MetadataObject** to create. The protocol client MUST specify values for all the elements in this complex type.

parentStruct: Specifies the MetadataObject in which to create the new MetadataObject in.

3.1.4.93.2.2 MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate WSDL operation**.

```
<xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

MetadataObjectCreateResult: The created **MetadataObject**. [<100>](#) If the **MetadataObject** specified in the request is a **MetadataCatalog**, and another **MetadataCatalog** with the same **Partition** as the specified **MetadataCatalog** already exists in the **metadata store**, this operation MUST return the already existing **MetadataCatalog**.

3.1.4.93.3 Complex Types

None.

3.1.4.93.4 Simple Types

None.

3.1.4.93.5 Attributes

None.

3.1.4.93.6 Groups

None.

3.1.4.93.7 Attribute Groups

None.

3.1.4.94 MetadataObjectMergeXml

This operation is used to merge the **Properties**, **localized names**, and **ACEs** contained by the specified **MetadataModel** into the existing **MetadataObjects** in the **metadata store**. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- **Action** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.3.
- **ActionParameter** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.4.
- **Association** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.7.
- **AssociationGroup** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.8.
- **Entity** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.11.
- **FilterDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.12.
- **Identifier** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.14.
- **LobSystem** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.17.
- **LobSystemInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.18.
- **Method** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.24.
- **MethodInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.25.
- **Model** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.

- **Parameter** element as specified in [MS-BDCMFFS] section 2.2.3.29.

The following is the **WSDL** port type specification of the **MetadataObjectMergeXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
BdcExceptionState (section 2.2.4.25)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The mergedStruct element specifies a TypeDescriptor. ▪ The "Properties" value is specified in the packageContents element, the specified MetadataModel contains Properties for a MetadataObject, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that MetadataObject. ▪ The "LocalizedNames" value is specified in the packageContents element, the specified MetadataModel contains localized names for a MetadataObject, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that MetadataObject. ▪ The "Permissions" value is specified in the packageContents element, the specified MetadataModel contains ACEs for a MetadataObject, and the security principal (2) in whose context the protocol client is operating is not authorized to set permissions for that MetadataObject.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	<p>The specified MetadataModel contains one or more MetadataObjects that already contain the implementation-specific maximum number of Properties and the packageContents element has "Properties" set in its value.</p>
InvalidOperationException (section 2.2.4.38)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataModel contains one or more MetadataObjects that already contain the implementation-specific maximum number of localized names and the packageContents element has "LocalizedNames" in its value. ▪ The specified MetadataModel contains one or more MetadataObjects which does not contain any ACE that specifies "SetPermissions" permission, and the packageContents element has "Permissions" in its value, and the

Error complex type	Condition
	<p>specified MetadataObject is one of the following:</p> <ul style="list-style-type: none"> ▪ Association ▪ MetadataCatalog ▪ Model ▪ LobSystem ▪ Entity ▪ Method ▪ MethodInstance
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One or more MetadataObjects specified by the MetadataModel do not exist in the metadata store. <101>
PackageFormatExceptionState (section 2.2.4.48)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataModel does not conform to [MS-BDCMFFS] section 2.2. <102> ▪ One or more MetadataObjects specified by the MetadataModel do not exist in the metadata store. ▪ The "Model" value is specified in the packageContents element.

3.1.4.94.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage	The request WSDL message for the MetadataObjectMergeXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage	The response WSDL message for the MetadataObjectMergeXml WSDL operation .

3.1.4.94.1.1 BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage

The request **WSDL message** for the **MetadataObjectMergeXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml
```

The **SOAP body** contains the **MetadataObjectMergeXml** element.

3.1.4.94.1.2 BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage

The response **WSDL message** for the **MetadataObjectMergeXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectMergeXmlResponse** element.

3.1.4.94.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectMergeXml	The input data for the MetadataObjectMergeXml WSDL operation .
MetadataObjectMergeXmlResponse	The result data for the MetadataObjectMergeXml WSDL operation .

3.1.4.94.2.1 MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml WSDL operation**.

```
<xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#) section 2.2.

packageContents: Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST merge the Properties for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a Property, that has the same name as the **Property** specified by the **MetadataModel**, already exists for the specified **MetadataObject**, then the protocol server MUST remove the already existing Property and then create a new **Property** that corresponds to the Property specified in the

MetadataModel. If a **Property** with the specified name does not exist for the specified **MetadataObject**, then the protocol server **MUST** create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.

- If the "Properties" value is not specified the protocol server **MUST** ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server **MUST** merge the localized names for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a localized name, that has the same LCID and **Setting** as the localized name specified by the **MetadataModel**, already exists for the specified **MetadataObject**, then the protocol server **MUST** remove the already existing localized name and then create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **MetadataObject** then the protocol server **MUST** create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified the protocol server **MUST** ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified and **MetadataModel** specifies **ACEs** for a **MetadataObject** for the specified **Setting**, protocol server **MUST** remove any of the existing ACEs for the specified **MetadataObject** for the specified **Setting**, and then create new ACEs that correspond to the ACEs specified in the **MetadataModel** for the specified **Setting**.
- If the "Permissions" value is not specified the protocol server **MUST** ignore ACEs in the specified **MetadataModel**.

parentStruct: The **MetadataObject** that contains the **MetadataObject** specified by the **MetadataModel**.

mergedStruct: The **MetadataObject** into which to merge the **Properties**, localized names, and ACEs. The attributes of the specified **MetadataObject** **MUST** be ignored by the protocol server. The type of this element **MUST** be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
Action	ActionStruct (section 2.2.4.5)
ActionParameter	ActionParameterStruct (section 2.2.4.4)
Association	AssociationStruct (section 2.2.4.23)
AssociationGroup	AssociationGroupStruct (section 2.2.4.21)
Entity	EntityStruct (section 2.2.4.31)
FilterDescriptor	FilterDescriptorStruct (section 2.2.4.34)
Identifier	IdentifierStruct (section 2.2.4.35)
LobSystem	LobSystemStruct (section 2.2.4.40)
LobSystemInstance	LobSystemInstanceStruct (section 2.2.4.39)
Method	MethodStruct (section 2.2.4.47)
MethodInstance	MethodInstanceStruct (section 2.2.4.45)

Root element name	Complex type
Model	ModelStruct (section 2.2.4.47)
Parameter	ParameterStruct (section 2.2.4.49)

settingId: The Setting to merge the **Properties, localized names** and ACEs. If the value is NULL, then protocol server MUST use the default Setting while performing the operation.

callerCultureLcid: Specifies the **LCID** corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.94.2.2 MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml WSDL operation**.

```
<xs:element name="MetadataObjectMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

mergedStruct: The **MetadataObject** into which the **Properties, localized names**, and **ACEs** were merged.

3.1.4.94.3 Complex Types

None.

3.1.4.94.4 Simple Types

None.

3.1.4.94.5 Attributes

None.

3.1.4.94.6 Groups

None.

3.1.4.94.7 Attribute Groups

None.

3.1.4.95 MetadataObjectReadXml

This operation is used to create **MetadataObjects** in the **metadata store**, optionally along with their **Properties**, **localized names**, and **ACEs**, contained by the specified **MetadataModel**. This operation creates **Properties**, localized names, and ACEs for default **Setting**. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- **Action** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.3.
- **ActionParameter** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.4.
- **Association** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.7.
- **AssociationGroup** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.8.
- **Entity** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.16.
- **Identifier** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.19.
- **FilterDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.17.
- **LobSystem** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23.
- **LobSystemInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.24.
- **Method** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.30.
- **MethodInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.31.
- **Parameter** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.37.

The following is the **WSDL** port type specification of the **MetadataObjectReadXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage request

message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in the section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The xml element specifies an LobSystem and the security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the parentStruct element. ▪ The xml element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the parentStruct element. ▪ The xml element specifies an Entity and the security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the

Error complex type	Condition
	<p>parentStruct element.</p> <ul style="list-style-type: none"> ▪ The xml element specifies an Identifier and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The xml element specifies an Action and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The xml element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity that contains the Action specified by the parentStruct element. ▪ The xml element specifies a Method and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The xml element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the parentStruct element. ▪ The xml element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element. ▪ The xml element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified

Error complex type	Condition
	<p>by the parentStruct element.</p> <ul style="list-style-type: none"> ▪ The xml element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element. ▪ The xml element specifies an Association and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the parentStruct element.
<p>ArgumentException (section 2.2.4.7)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ "Model" value is not specified in the packageContents element. ▪ The "InlineProxies" value is specified for the packageContents element and the specified MetadataModel contains an LobSystem with an associated Business Logic Module. ▪ The specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The specified MetadataModel contains a Method that contains more than one Parameter with the Direction attribute set to "Return". ▪ The specified MetadataModel contains an Association which references the same Entity more than once as a source of the Association. ▪ The specified MetadataModel contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other

Error complex type	Condition
	<p>TypeDescriptors.</p> <ul style="list-style-type: none"> ▪ 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 specified MetadataModel contains MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose Direction is "In" or "InOut" and the type of the this MethodInstance, is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptor Accessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The specified MetadataModel contains a MethodInstance, the Method containing this

Error complex type	Condition
	<p>MethodInstance is not contain a TimeStampFilter and the type of this MethodInstance is one of the following values:</p> <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator
<p>BdcExceptionState (section 2.2.4.25)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataModel represents a Model or a TypeDescriptor. ▪ The specified MetadataModel does not conform to the format specified in [MS-BDCMFFS]. ▪ One or more of the TypeDescriptors are specified in the MetadataModel have DefaultValues, but the Method that contains the Parameter that contains these TypeDescriptors, do not contain the MethodInstance specified by these DefaultValues.
<p>DuplicateMetadataObjectExceptionState (section 2.2.4.30)</p>	<p>The specified MetadataModel represents an LobSystem, and another LobSystem with the same name and different type already exists in the metadata store.</p>
<p>ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)</p>	<p>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, <103> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an Entity contains more Methods than the implementation-specific maximum number of Methods allowed per Entity.</p>
<p>InvalidOperationException (section 2.2.4.38)</p>	<p>One of the following conditions</p>

Error complex type	Condition
	<p>applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataModel contains one or more MetadataObjects that contain an ACE which specify anonymous user to have permissions other than "Execute", the packageContents element has "Permissions" in its value, and the specified MetadataObject is one of the following: <ul style="list-style-type: none"> ▪ Association ▪ Entity ▪ LobSystem ▪ Method ▪ MethodInstance ▪ The specified MetadataModel contains one or more MetadataObject elements that does not contain an ACE that is set to "SetPermissions", the packageContents element has "Permissions" in its value, and the specified MetadataObject is one of the following: <ul style="list-style-type: none"> ▪ Association ▪ Entity ▪ LobSystem ▪ Method ▪ MethodInstance
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The creation of the MetadataObjects in the specified MetadataModel cannot be because MetadataObjects are missing in the metadata store.
PackageFormatExceptionState (section 2.2.4.48)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ One or more Entities in the specified MetadataModel already exist on a different

Error complex type	Condition
	<p>LobSystem.</p> <ul style="list-style-type: none"> The protocol server cannot find the Parameter that contains the ReturnPropertyDescriptor associated with one of the MethodInstances contained by the specified MetadataModel.

3.1.4.95.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage	The request WSDL message for the MetadataObjectReadXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage	The response WSDL message for the MetadataObjectReadXml WSDL operation .

3.1.4.95.1.1 BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage

The request **WSDL message** for the **MetadataObjectReadXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml
```

The **SOAP body** contains the **MetadataObjectReadXml** element.

3.1.4.95.1.2 BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage

The response **WSDL message** for the **MetadataObjectReadXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectReadXmlResponse** element.

3.1.4.95.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectReadXml	The input data for the MetadataObjectReadXml WSDL operation .
MetadataObjectReadXmlResponse	The result data for the MetadataObjectReadXml WSDL operation.

3.1.4.95.2.1 MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml WSDL operation**.

```
<xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the **MetadataModel** that conforms to Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the MetadataModel are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

parentStruct: Specifies the **MetadataObject** in which to create the new **MetadataObject**.

readStruct: The **MetadataObject** that corresponds to the root element of the specified **MetadataModel**. The attributes of the specified **MetadataObject** MUST be ignored by the protocol

server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root Element Name	Complex Type
Action	ActionStruct (section 2.2.4.5)
ActionParameter	ActionParameterStruct (section 2.2.4.4)
Association	AssociationStruct (section 2.2.4.23)
AssociationGroup	AssociationGroupStruct (section 2.2.4.21)
Entity	EntityStruct (section 2.2.4.31)
FilterDescriptor	FilterDescriptorStruct (section 2.2.4.34)
Identifier	IdentifierStruct (section 2.2.4.35)
LobSystem	LobSystemStruct (section 2.2.4.40)
LobSystemInstance	LobSystemInstanceStruct (section 2.2.4.39)
Method	MethodStruct (section 2.2.4.46)
MethodInstance	MethodInstanceStruct (section 2.2.4.45)
Parameter	ParameterStruct (section 2.2.4.49)

callerCultureLcid: Specifies the **LCID** corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.95.2 MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** **WSDL operation**.

```
<xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

readStruct: The **MetadataObject** that specifies the created **MetadataObject**.

3.1.4.95.3 Complex Types

None.

3.1.4.95.4 Simple Types

None.

3.1.4.95.5 Attributes

None.

3.1.4.95.6 Groups

None.

3.1.4.95.7 Attribute Groups

None.

3.1.4.96 MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an **XML** representation of the following objects from the **metadata store**:

- **MetadataObjects** contained by the **MetadataModel** along with their **Properties, localized names, and ACEs**, if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [MS-BDCMFFS] section [2.1.3.34](#).
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The XML MUST conform to [MS-BDCMFFS] section [2.2.3.28](#).

The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.

If the specified **MetadataModel** contains **LoBSystems** that the **security principal (2)** in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LoBSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

The following is the **WSDL** port type specification of the **MetadataObjectWriteXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectWriteXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in the section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject and the MetadataObject is an LobSystem or an LobSystemInstance. ▪ The security

Error complex type	Condition
	principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject and the "Permissions" flag is set in packageContents element.
ArgumentException (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the packageContents element.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One or more MetadataObjects required for the operation does not exist. <104>

3.1.4.96.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage	The request WSDL message for the MetadataObjectWriteXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage	The response WSDL message for the MetadataObjectWriteXml WSDL operation .

3.1.4.96.1.1 BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage

The request **WSDL message** for the **MetadataObjectWriteXml WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml>

The **SOAP body** contains the **MetadataObjectWriteXml** element.

3.1.4.96.1.2 BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage

The response **WSDL message** for the **MetadataObjectWriteXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectWriteXmlResponse** element.

3.1.4.96.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectWriteXml	The input data for the MetadataObjectWriteXml WSDL operation .
MetadataObjectWriteXmlResponse	The result data for the MetadataObjectWriteXml WSDL operation .

3.1.4.96.2.1 MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml WSDL operation**.

```
<xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** to be retrieved.

packageContents: Specifies what kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, then the protocol server MUST also retrieve the **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST retrieve the **localized names** for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified then the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same **LCID** as the localized names in the specified **Setting**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

- If the "Permissions" value is specified, the protocol server MUST retrieve the **ACEs** for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject**, and if the "Model" value is also specified, then the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.
- If the "InlineProxies" value is not specified, the protocol server MUST ignore **Business Logic Modules** in the specified **MetadataModel**.

settingId: The **Setting** from which **Properties**, localized names, and ACEs are to be retrieved. If **Properties**, localized names, and ACEs are not retrieved, the protocol server MUST ignore the value of this element.

3.1.4.96.2.2 MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** **WSDL operation**.

```
<xs:element name="MetadataObjectWriteXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
        type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MetadataObjectWriteXmlResult: The XML that represents the **MetadataObject** represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [\[XML\]](#). The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table:

Complex type	Root element
ActionParameterStruct (section 2.2.4.4)	If the packageContents element is set to "Model", the ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. Otherwise, the ActionParameter element as specified in [MS-BDCMFFS] section 2.2.3.4.
ActionStruct (section 2.2.4.5)	If the packageContents element is set to "Model", the Action element as specified in [MS-BDCMFFS] section 2.1.3.3. Otherwise, the Action element as specified in [MS-BDCMFFS] section 2.2.3.3.
AssociationGroupStruct (section 2.2.4.21)	If the packageContents element is set to "Model", the AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.3.8. Otherwise, the AssociationGroup element as specified in [MS-BDCMFFS] section 2.2.3.8.
AssociationStruct (section 2.2.4.23)	If the packageContents element is set to "Model", the Association element as specified in [MS-BDCMFFS] section 2.1.3.7. Otherwise, the Association element as specified in [MS-BDCMFFS] section 2.2.3.7.
EntityStruct (section 2.2.4.31)	If the packageContents element is set to "Model", the Entity element as specified in [MS-BDCMFFS] section

Complex type	Root element
	2.1.3.16. Otherwise, the Entity element as specified in [MS-BDCMFFS] section 2.2.3.11.
FilterDescriptorStruct (section 2.2.4.34)	If the packageContents element is set to "Model", the FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the FilterDescriptor element as specified in [MS-BDCMFFS] section 2.2.3.12.
IdentifierStruct (section 2.2.4.35)	If the packageContents element is set to "Model", the Identifier element as specified in [MS-BDCMFFS] section 2.1.3.19. Otherwise, the Identifier element as specified in [MS-BDCMFFS] section 2.2.3.14.
LobSystemStruct (section 2.2.4.40)	If the "Model" value of packageContents is specified, the LobSystem element as specified in [MS-BDCMFFS] section 2.1.3.23. Otherwise, the LobSystem element as specified in [MS-BDCMFFS] section 2.2.3.17.
LobSystemInstanceStruct (section 2.2.4.39)	If the "Model" value of packageContents is specified, the LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.3.24. Otherwise, the LobSystemInstance element as specified in [MS-BDCMFFS] section 2.2.3.18.
MethodStruct (section 2.2.4.46)	If the "Model" value of packageContents is specified, the Method element as specified in [MS-BDCMFFS] section 2.1.3.30. Otherwise, the Method element as specified in [MS-BDCMFFS] section 2.2.3.24.
MethodInstanceStruct (section 2.2.4.45)	If the "Model" value of packageContents is specified, the MethodInstance element as specified in [MS-BDCMFFS] section 2.1.3.31. Otherwise, the MethodInstance element as specified in [MS-BDCMFFS] section 2.2.3.25.
ModelStruct (section 2.2.4.47)	If the "Model" value of packageContents is specified, the Model element as specified in [MS-BDCMFFS] section 2.1.3.34. Otherwise, the Model element as specified in [MS-BDCMFFS] section 2.2.3.28.
ParameterStruct (section 2.2.4.49)	If the "Model" value of packageContents is specified, the Parameter element as specified in [MS-BDCMFFS] section 2.1.3.37. Otherwise, the Parameter element as specified in [MS-BDCMFFS] section 2.2.3.29.
TypeDescriptorStruct (section 2.2.4.53)	If the "Model" value of packageContents is specified, the TypeDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.43. Otherwise, the TypeDescriptor element as specified in [MS-BDCMFFS] section 2.2.3.34. <105>

3.1.4.96.3 Complex Types

None.

3.1.4.96.4 Simple Types

None.


```

edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml InvalidOperationExceptionFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ModelReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ModelReadXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog .
ArgumentException (section 2.2.4.7)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The "Model" value is not specified in the packageContents element. ▪ The specified MetadataModel contains one or more MetadataObjects with invalid attributes. <106> ▪ The "InlineProxies" value is specified for the packageContents element and the specified MetadataModel contains LobSystem with an associated Business Logic Module. ▪ The specified MetadataModel contains a Method that contains more than one TimeStampFilter. ▪ The specified MetadataModel contains a Method that contains more than one Parameter with direction "Return". ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The "Model" value is specified for the packageContents element, and the

Error complex type	Condition
	<p>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".</p> <ul style="list-style-type: none"> ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose Direction is "In" or "InOut" and the type of the this MethodInstance, is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The "Model" value is specified for the packageContents element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance is not contain a TimeStampFilter and the type of this MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ The specified MetadataModel contains an Association which specifies an Entity as a source more than once.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataCatalog is 0.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The value of the updateModel element is FALSE, and there is already another Model with the same name as the Model contained by the MetadataModel contained by the specified MetadataCatalog. ▪ The specified MetadataModel represents an LobSystem, but an LobSystem with the same name and different SystemType value already exists in the metadata store.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified MetadataModel contains a MetadataObject that contains more objects of a type than the implementation-specific maximum number of that type of objects. MetadataObjects, Properties , localized names<107> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an Entity contains more Methods than the implementation-specific maximum number of Methods allowed per Entity .
InvalidOperationException (section 2.2.4.38)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataModel contains one or more MetadataObjects that contain an ACE which specify anonymous user to have permissions other than "Execute", the packageContents element has "Permissions" in its value, and the specified MetadataObject is one of the following: <ul style="list-style-type: none"> ▪ Association ▪ Entity ▪ LobSystem ▪ Method ▪ MethodInstance ▪ The specified MetadataModel contains one or more MetadataObject elements that does not contain an ACE that is set to "SetPermissions", the

Error complex type	Condition
	<p>packageContents element has "Permissions" in its value, and the specified MetadataObject is one of the following:</p> <ul style="list-style-type: none"> ▪ Association ▪ Entity ▪ LobSystem ▪ Method ▪ MethodInstance
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The value of the updateModel element is true and the specified MetadataCatalog does not contain the Model contained by the MetadataModel .
PackageFormatExceptionState (section 2.2.4.48)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified XML does not conform to the format specified in [MS-BDCMFFS].<108> ▪ One of the Entities contained by the MetadataModel has the same name, namespace and version as an Entity in the metadata store, but the names of the LobSystems that contain these Entities are not identical.

3.1.4.97.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ModelReadXml_InputMessage	The request WSDL message for the ModelReadXml WSDL operation .
BusinessDataCatalogSharedService_ModelReadXml_OutputMessage	The response WSDL message for the ModelReadXml WSDL operation.

3.1.4.97.1.1 BusinessDataCatalogSharedService_ModelReadXml_InputMessage

The request **WSDL message** for the **ModelReadXml WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **ModelReadXml** element.

3.1.4.97.1.2 BusinessDataCatalogSharedService_ModelReadXml_OutputMessage

The response **WSDL message** for the **ModelReadXml WSDL operation**.

The **SOAP body** contains the **ModelReadXmlResponse** element.

3.1.4.97.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ModelReadXml	The input data for the ModelReadXml WSDL operation .
ModelReadXmlResponse	The result data for the ModelReadXml WSDL operation .

3.1.4.97.2.1 ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml WSDL operation**.

```
<xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding **MetadataObjects**. If the **metadata store** already contains a Property with the same name in the specified **Setting** for the **MetadataObject**, the Property in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**. If the metadata store already contains a

localized name with the same **LCID** in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store **MUST** be replaced.

- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server **MUST** delete **ACEs** in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server **MUST** ignore ACEs in the specified **MetadataModel**.

applicationRegistryStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**.

callerCultureLcid: Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages **MUST** be generated for the specified locale. Otherwise, protocol server **MUST** return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server **MUST** remove all **Entity** references from the **Model**. Then, the protocol server **MUST** create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**.

3.1.4.97.2.2 ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml WSDL operation**.

```
<xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ModelReadXmlResult: The **Model** from the **metadata store** that is corresponding to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

3.1.4.97.3 Complex Types

None.

3.1.4.97.4 Simple Types

None.

3.1.4.97.5 Attributes

None.

3.1.4.97.6 Groups

None.

3.1.4.97.7 Attribute Groups

None.

3.1.4.98 ReadSlicedXml

This operation is deprecated from the protocol and MUST NOT be called.

The following is the **WSDL** port type specification of the **ReadSlicedXml WSDL operation**.

```
<wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:fault>
</wsdl:operation>
```

```

name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

3.1.4.98.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage	The request WSDL message for the ReadSlicedXml WSDL operation .
BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage	The response WSDL message for the ReadSlicedXml WSDL operation.

3.1.4.98.1.1 BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage

The request **WSDL message** for the **ReadSlicedXml WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml

```

The **SOAP body** contains the **ReadSlicedXml** element.

3.1.4.98.1.2 BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage

The response **WSDL message** for the **ReadSlicedXml WSDL operation**.

The **SOAP body** contains the **ReadSlicedXmlResponse** element.

3.1.4.98.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ReadSlicedXml	The input data for the ReadSlicedXml WSDL operation .
ReadSlicedXmlResponse	The result data for the ReadSlicedXml WSDL operation.

3.1.4.98.2.1 ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml WSDL operation**.

```

<xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

xml: Deprecated.

packageContents: Deprecated.

parentStruct: Deprecated.

readStruct: Deprecated.

callerCultureLcid: Deprecated.

3.1.4.98.2.2 ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml WSDL operation**.

```

<xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

errors: Deprecated.

readStruct: Deprecated.

3.1.4.98.3 Complex Types

None.

3.1.4.98.4 Simple Types

None.

3.1.4.98.5 Attributes

None.

3.1.4.98.6 Groups

None.

3.1.4.98.7 Attribute Groups

None.

3.1.4.99 RemoveEntityFromModel

This operation is used to remove the reference to the specified **Entity** from the specified Model.

The following is the **WSDL** port type specification of the **RemoveEntityFromModel WSDL operation**.

```
<wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel"
    message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse"
    message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to remove the reference from the specified Model to the specified Entity.
MetadataObjectNotFoundStateException (section 2.2.4.43)	The specified Entity is not referenced by the specified Model .

3.1.4.99.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage	The request WSDL message for the RemoveEntityFromModel WSDL operation .
BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage	The response WSDL message for the RemoveEntityFromModel WSDL operation .

3.1.4.99.1.1 BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage

The request **WSDL message** for the **RemoveEntityFromModel WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel
```

The **SOAP body** contains the **RemoveEntityFromModel** element.

3.1.4.99.1.2 BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage

The response **WSDL message** for the **RemoveEntityFromModel WSDL operation**.

The **SOAP body** contains the **RemoveEntityFromModelResponse** element.

3.1.4.99.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveEntityFromModel	The input data for the RemoveEntityFromModel WSDL operation .
RemoveEntityFromModelResponse	The result data for the RemoveEntityFromModel WSDL operation .

3.1.4.99.2.1 RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel WSDL operation**.

```
<xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The **Model**.

entityStruct: The **Entity**.

3.1.4.99.2.2 RemoveEntityFromModelResponse

The **RemoveEntityFromModelResponse** element specifies the result data for the **RemoveEntityFromModel WSDL operation**.

```
<xs:element name="RemoveEntityFromModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.99.3 Complex Types

None.

3.1.4.99.4 Simple Types

None.

3.1.4.99.5 Attributes

None.

3.1.4.99.6 Groups

None.

3.1.4.99.7 Attribute Groups

None.

3.1.4.100 RemoveLocalizedName

This operation is used to remove the **localized name** with the specified **LCID** from the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **RemoveLocalizedName WSDL operation**.

```
<wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse"
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeException Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InvalidOperationExceptionExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.
InvalidOperationException (section 2.2.4.38)	The localized name for the specified LCID does not exist in the specified Setting for the specified MetadataObject .

3.1.4.100.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage	The request WSDL message for the RemoveLocalizedName WSDL operation .
BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage	The response WSDL message for the RemoveLocalizedName WSDL operation .

3.1.4.100.1.1 BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage

The request **WSDL message** for the **RemoveLocalizedName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName
```

The **SOAP body** contains the **RemoveLocalizedName** element.

3.1.4.100.1.2 BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage

The response **WSDL message** for the **RemoveLocalizedName WSDL operation**.

The **SOAP body** contains the **RemoveLocalizedNameResponse** element.

3.1.4.100.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveLocalizedName	The input data for the RemoveLocalizedName WSDL operation .
RemoveLocalizedNameResponse	The result data for the RemoveLocalizedName WSDL operation .

3.1.4.100.2.1 RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName WSDL operation**.

```
<xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**.

lcid: The **LCID** of the **localized name** to be removed.

settingId: The **Setting** to remove the localized name from.

3.1.4.100.2.2 RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName WSDL operation**.

```
<xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.100.3 Complex Types

None.

3.1.4.100.4 Simple Types

None.

3.1.4.100.5 Attributes

None.

3.1.4.100.6 Groups

None.

3.1.4.100.7 Attribute Groups

None.

3.1.4.101 RemoveProperty

This operation is used to remove the specified Property from the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **RemoveProperty WSDL operation**.

```
<wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveProperty_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveProperty_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
ArgumentException (section 2.2.4.7)	The name element is empty or NULL.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.101.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveProperty_InputMessage	The request WSDL message for the RemoveProperty WSDL operation .
BusinessDataCatalogSharedService_RemoveProperty_OutputMessage	The response WSDL message for the RemoveProperty WSDL operation .

3.1.4.101.1.1 BusinessDataCatalogSharedService_RemoveProperty_InputMessage

The request **WSDL message** for the **RemoveProperty WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty
```

The **SOAP body** contains the **RemoveProperty** element.

3.1.4.101.1.2 BusinessDataCatalogSharedService_RemoveProperty_OutputMessage

The response **WSDL message** for the **RemoveProperty WSDL operation**.

The **SOAP body** contains the **RemovePropertyResponse** element.

3.1.4.101.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveProperty	The input data for the RemoveProperty WSDL operation .
RemovePropertyResponse	The result data for the RemoveProperty WSDL operation .

3.1.4.101.2.1 RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty WSDL operation**.

```
<xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**.

name: The name of the **Property** to be deleted.

settingId: The **Setting** from which to delete the **Property**.

3.1.4.101.2.2 RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty WSDL operation**.

```
<xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.101.3 Complex Types

None.

3.1.4.101.4 Simple Types

None.

3.1.4.101.5 Attributes

None.

3.1.4.101.6 Groups

None.

3.1.4.101.7 Attribute Groups

None.

3.1.4.102 SaveLocalizedName

This operation is used to add or replace a **localized name** for the specified **MetadataObject**. If a localized name with the same **LCID** as the specified LCID already exists for the specified **MetadataObject**, the protocol server **MUST** replace the localized name of the specified **MetadataObject** with the specified localized name.

The following is the **WSDL** port type specification of the **SaveLocalizedName WSDL operation**.

```
<wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage** request message, and

the protocol server MUST respond with a **BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
InvalidOperationException (section 2.2.4.38)	The specified MetadataObject already contains the implementation-specific maximum number of localized names.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.102.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage	The request WSDL message for the SaveLocalizedName WSDL operation .
BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage	The response WSDL message for the SaveLocalizedName WSDL operation .

3.1.4.102.1.1 BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage

The request **WSDL message** for the **SaveLocalizedName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName
```

The **SOAP body** contains the **SaveLocalizedName** element.

3.1.4.102.1.2 BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage

The response **WSDL message** for the **SaveLocalizedName WSDL operation**.

The **SOAP body** contains the **SaveLocalizedNameResponse** element.

3.1.4.102.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SaveLocalizedName	The input data for the SaveLocalizedName WSDL operation .
SaveLocalizedNameResponse	The result data for the SaveLocalizedName WSDL operation .

3.1.4.102.2.1 SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName WSDL operation**.

```
<xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**.

lcid: The **LCID** of the localized name to be saved.

name: The localized name of the **MetadataObject**.

settingId: The **Setting** to write the localized name to.

3.1.4.102.2.2 SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName WSDL operation**.

```
<xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.102.3 Complex Types

None.

3.1.4.102.4 Simple Types

None.

3.1.4.102.5 Attributes

None.

3.1.4.102.6 Groups

None.

3.1.4.102.7 Attribute Groups

None.

3.1.4.103 SaveProperty

This operation is used to add or replace a **Property** for the specified **MetadataObject**. If a **Property** with the same name as the specified **Property** already exists for the specified **MetadataObject**, the protocol server **MUST** replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the **WSDL** port type specification of the **SaveProperty WSDL operation**.

```
<wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SaveProperty_InputMessage** request message, and the protocol server **MUST** respond with a

BusinessDataCatalogSharedService_SaveProperty_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified MetadataObject already contains the implementation-specific maximum number of Properties .
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

3.1.4.103.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SaveProperty_InputMessage	The request WSDL message for the SaveProperty WSDL operation .
BusinessDataCatalogSharedService_SaveProperty_OutputMessage	The response WSDL message for the SaveProperty WSDL operation .

3.1.4.103.1.1 BusinessDataCatalogSharedService_SaveProperty_InputMessage

The request **WSDL message** for the **SaveProperty WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty>

The **SOAP body** contains the **SaveProperty** element.

3.1.4.103.1.2 BusinessDataCatalogSharedService_SaveProperty_OutputMessage

The response **WSDL message** for the **SaveProperty WSDL operation**.

The **SOAP body** contains the **SavePropertyResponse** element.

3.1.4.103.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SaveProperty	The input data for the SaveProperty WSDL operation .
SavePropertyResponse	The result data for the SaveProperty WSDL operation .

3.1.4.103.2.1 SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty WSDL operation**.

```
<xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="q5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**.

propertyStruct: The **Property** to be saved.

3.1.4.103.2.2 SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty WSDL operation**.

```
<xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.103.3 Complex Types

None.

3.1.4.103.4 Simple Types

None.

3.1.4.103.5 Attributes

None.

3.1.4.103.6 Groups

None.

3.1.4.103.7 Attribute Groups

None.

3.1.4.104 SetAccessControlEntries

This operation is used to set an **access control list (ACL)** to the specified **MetadataObject**. The protocol server **MUST** delete all **ACEs** of the specified **MetadataObject** for the specified **Setting**, and then adds the specified ACEs to the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **SetAccessControlEntries WSDL operation**.

```
<wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with at exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to set permissions on the specified MetadataObject .
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId for the specified MetadataObject is set to zero.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: <ul style="list-style-type: none">At least one of the specified ACEs contains an invalid value for principalName element.The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify anonymous user to have permissions other than "Execute".

3.1.4.104.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage	The request WSDL message for the SetAccessControlEntries WSDL operation .
BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage	The response WSDL message for the SetAccessControlEntries WSDL operation .

3.1.4.104.1.1 BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage

The request **WSDL message** for the **SetAccessControlEntries WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries
```

The **SOAP body** contains the **SetAccessControlEntries** element.

3.1.4.104.1.2 BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage

The response **WSDL message** for the **SetAccessControlEntries WSDL operation**.

The **SOAP body** contains the **SetAccessControlEntriesResponse** element.

3.1.4.104.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetAccessControlEntries	The input data for the SetAccessControlEntries WSDL operation .
SetAccessControlEntriesResponse	The result data for the SetAccessControlEntries WSDL operation .

3.1.4.104.2.1 SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries WSDL operation**.

```
<xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="q5:ArrayOfAccessControlEntryStruct"/>
    

```

```
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **MetadataObject** MUST be of one of the following types:

- **MetadataCatalog**
- **Model**
- **LobSystem**
- **Entity**
- **Method**
- **MethodInstance**

accessControlEntries: The **ACEs**.

settingId: The **Setting** to write the ACEs to.

3.1.4.104.2.2 SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries WSDL operation**.

```
<xs:element name="SetAccessControlEntriesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.104.3 Complex Types

None.

3.1.4.104.4 Simple Types

None.

3.1.4.104.5 Attributes

None.

3.1.4.104.6 Groups

None.

3.1.4.104.7 Attribute Groups

None.

3.1.4.105 SetDefaultActionForEntity

This operation is used to set the default **Action** for the specified **Entity**.

The following is the **WSDL** port type specification of the **SetDefaultActionForEntity WSDL operation**.

```
<wsdl:operation name="SetDefaultActionForEntity"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified Entity .
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist or does not contain an Action with the specified name.

3.1.4.105.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage	The request WSDL message for the SetDefaultActionForEntity WSDL operation .
BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage	The response WSDL message for the SetDefaultActionForEntity WSDL operation .

3.1.4.105.1.1 BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage

The request **WSDL message** for the **SetDefaultActionForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity
```

The **SOAP body** contains the **SetDefaultActionForEntity** element.

3.1.4.105.1.2 BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage

The response **WSDL message** for the **SetDefaultActionForEntity WSDL operation**.

The **SOAP body** contains the **SetDefaultActionForEntityResponse** element.

3.1.4.105.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetDefaultActionForEntity	The input data for the SetDefaultActionForEntity WSDL operation .
SetDefaultActionForEntityResponse	The result data for the SetDefaultActionForEntity WSDL operation .

3.1.4.105.2.1 SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity WSDL operation**.

```
<xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
      <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The **Entity** to which a default **Action** will be set.

actionName: The name of the Action to be set as default Action to the specified Entity.

partitionId: The **empty GUID**.

3.1.4.105.2.2 SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity WSDL operation**.

```
<xs:element name="SetDefaultActionForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.105.3 Complex Types

None.

3.1.4.105.4 Simple Types

None.

3.1.4.105.5 Attributes

None.


```

message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter containing the specified TypeDescriptor .
ArgumentException (section 2.2.4.7)	The specified DefaultValue is invalid.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified TypeDescriptor already contains the implementation-specific maximum number of DefaultValues .
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified TypeDescriptor does not exist.

3.1.4.106.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage	The request WSDL message for the SetDefaultValuesForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the SetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.106.1.1 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage

The request **WSDL message** for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor
```

The **SOAP body** contains the **SetDefaultValuesForTypeDescriptor** element.

3.1.4.106.1.2 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage

The response **WSDL message** for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **SetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.106.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetDefaultValuesForTypeDescriptor	The input data for the SetDefaultValuesForTypeDescriptor WSDL operation .
SetDefaultValuesForTypeDescriptorResponse	The result data for the SetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.106.2.1 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="SetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="defaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

defaultValueStruct: The **DefaultValue** to be set for the specified **TypeDescriptor** .

partitionId: An **empty GUID**.

3.1.4.106.2.2 SetDefaultValuesForTypeDescriptorResponse

The **SetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="SetDefaultValuesForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.106.3 Complex Types

None.

3.1.4.106.4 Simple Types

None.

3.1.4.106.5 Attributes

None.

3.1.4.106.6 Groups

None.

3.1.4.106.7 Attribute Groups

None.

3.1.4.107 SetLobSystemDataByLobSystemId

This operation is deprecated from the protocol and MUST NOT be called.

The following is the **WSDL** port type specification of the **SetLobSystemDataByLobSystemId WSDL operation**.

```
<wsdl:operation name="SetLobSystemDataByLobSystemId"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_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/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

3.1.4.107.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage	The request WSDL message for the SetLobSystemDataByLobSystemId WSDL operation .
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage	The response WSDL message for the SetLobSystemDataByLobSystemId WSDL operation .

3.1.4.107.1.1 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage

The request **WSDL message** for the **SetLobSystemDataByLobSystemId WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Set
LobSystemDataByLobSystemId

```

The **SOAP body** contains the **SetLobSystemDataByLobSystemId** element.

3.1.4.107.1.2 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage

The response **WSDL message** for the **SetLobSystemDataByLobSystemId WSDL operation**.

The **SOAP body** contains the **SetLobSystemDataByLobSystemIdResponse** element.

3.1.4.107.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetLobSystemDataByLobSystemId	The input data for the SetLobSystemDataByLobSystemId WSDL operation .
SetLobSystemDataByLobSystemIdResponse	The result data for the SetLobSystemDataByLobSystemId WSDL operation .

3.1.4.107.2.1 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId WSDL operation**.

```
<xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
        minOccurs="0" name="proxyGenerationResult" nillable="true"
        type="tns2:ProxyGenerationResult"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: Deprecated.

proxyGenerationResult: Deprecated.

partitionId: Deprecated.

3.1.4.107.2.2 SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId WSDL operation**.

```
<xs:element name="SetLobSystemDataByLobSystemIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.107.3 Complex Types

None.

3.1.4.107.4 Simple Types

None.

3.1.4.107.5 Attributes

None.

3.1.4.107.6 Groups

None.

3.1.4.107.7 Attribute Groups

None.

3.1.4.108 TypeDescriptorCreate

This operation is used to create a **TypeDescriptor** in the **metadata store**.

The following is the **WSDL** port type specification of the **TypeDescriptorCreate WSDL operation**.

```
<wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter specified by parameterStruct element.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The TypeDescriptor specified by rawValues element and the TypeDescriptor specified by parentTypeDescriptorStruct element are contained by different Parameters. ▪ The data type referenced by the typeName element of the specified TypeDescriptor is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. ▪ The TypeDescriptor specified by parentTypeDescriptorStruct element is NULL and the Parameter has another root TypeDescriptor. ▪ The TypeDescriptor and the parent TypeDescriptor specified by parentTypeDescriptorStruct element have the IsCollection flag set. ▪ The TypeDescriptor is associated with a FilterDescriptor and the FilterDescriptor is not contained by the Method that contains the Parameter specified by parameterStruct element. ▪ The TypeDescriptor specified by parentTypeDescriptorStruct element has "IsCollection" flag set and already contains another TypeDescriptor. ▪ The TypeDescriptor is has "read-only" flag set, and the Direction attribute of the Parameter is set to "In".
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The TypeDescriptor specified by the parentStruct element already contains another TypeDescriptor that has the same name.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> 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.
InvalidOperationException (section 2.2.4.38)	The Parameter specified by the parameterStruct element is contained by an active Entity . <109>

3.1.4.108.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage	The request WSDL message for the TypeDescriptorCreate WSDL operation .
BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage	The response WSDL message for the TypeDescriptorCreate WSDL operation .

3.1.4.108.1.1 BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage

The request **WSDL message** for the **TypeDescriptorCreate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate
```

The **SOAP body** contains the **TypeDescriptorCreate** element.

3.1.4.108.1.2 BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage

The response **WSDL message** for the **TypeDescriptorCreate WSDL operation**.

The **SOAP body** contains the **TypeDescriptorCreateResponse** element.

3.1.4.108.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorCreate	The input data for the TypeDescriptorCreate WSDL operation .
TypeDescriptorCreateResponse	The result data for the TypeDescriptorCreate WSDL operation .

3.1.4.108.2.1 TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate WSDL operation**.

```
<xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: The **TypeDescriptor** to create. The protocol client **MUST** specify values for all the elements in this complex type.

parentTypeDescriptorStruct: The **TypeDescriptor** that contains the **TypeDescriptor** to create. If the **TypeDescriptor** to be created is a **root TypeDescriptor**, then the value of this element **MUST** be NULL.

parameterStruct: The **Parameter** containing the created TypeDescriptor.

3.1.4.108.2.2 TypeDescriptorCreateResponse

The **TypeDescriptorCreateResponse** element specifies the result data for the **TypeDescriptorCreate WSDL operation**.

```
<xs:element name="TypeDescriptorCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

TypeDescriptorCreateResult: The created **TypeDescriptor**.

3.1.4.108.3 Complex Types

None.

3.1.4.108.4 Simple Types

None.

3.1.4.108.5 Attributes

None.

3.1.4.108.6 Groups

None.

3.1.4.108.7 Attribute Groups

None.

3.1.4.109 TypeDescriptorMergeXml

This operation is used to merge the **Properties** and **localized names** contained by the **TypeDescriptors** in the specified **MetadataModel** into an existing **TypeDescriptor** in the **metadata store**. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

The following is the **WSDL** port type specification of the **TypeDescriptorMergeXml WSDL operation**.

```
<wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml PackageFormatExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the Method containing the specified Parameter .
ArgumentException (section 2.2.4.7)	The "Model" value is specified in the packageContents element.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified MetadataModel contains one or more TypeDescriptors that already contain the implementation-specific maximum number of Properties and the packageContents element has "Properties" set in its value.
InvalidOperationException (section 2.2.4.38)	The specified MetadataModel specifies one or more TypeDescriptors that already contain the implementation-specific maximum number of localized names and the packageContents element has "LocalizedNames" in its value.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One of the following conditions applies: <ul style="list-style-type: none"> ▪ The specified Parameter or the specified TypeDescriptor could not be found. ▪ The specified TypeDescriptor

Error complex type	Condition
	could not be found.
PackageFormatExceptionState (section 2.2.4.48)	The TypeDescriptor specified in the MetadataModel does not exist in the specified TypeDescriptor or the specified Parameter if a TypeDescriptor is not specified.

3.1.4.109.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage	The request WSDL message for the TypeDescriptorMergeXml WSDL operation .
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage	The response WSDL message for the TypeDescriptorMergeXml WSDL operation .

3.1.4.109.1.1 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage

The request **WSDL message** for the **TypeDescriptorMergeXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml
```

The **SOAP body** contains the **TypeDescriptorMergeXml** element.

3.1.4.109.1.2 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage

The response **WSDL message** for the **TypeDescriptorMergeXml WSDL operation**.

The **SOAP body** contains the **TypeDescriptorMergeXmlResponse** element.

3.1.4.109.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorMergeXml	The input data for the TypeDescriptorMergeXml WSDL operation .
TypeDescriptorMergeXmlResponse	The result data for the TypeDescriptorMergeXml WSDL operation.

3.1.4.109.2.1 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml** **WSDL operation**.

```
<xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packgeContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **TypeDescriptor** that conforms to [\[MS-BDCMFFS\]](#) section 2.2.3.34.

packgeContents: Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server **MUST** follow the following rules:

- If the "Properties" value is specified, the protocol server **MUST** merge the **Properties** for the corresponding **TypeDescriptors** for the specified **Setting**. During this merge, if a **Property**, that has the same name as the **Property** specified in the **MetadataModel** already exists for the specified **TypeDescriptor**, then the protocol server **MUST** remove the already existing Property and then create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **TypeDescriptor**, then the protocol server **MUST** create a new **Property** that corresponds to the Property specified in the **MetadataModel**.
- If the "Properties" value is not specified, the protocol server **MUST** ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server **MUST** merge the **localized names** for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name, that has the same **LCID** and **Setting** as the localized name specified by the **MetadataModel**, already exists for the specified **TypeDescriptor**, then the protocol server **MUST** remove the already existing localized name and then create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **TypeDescriptor** then the protocol server **MUST** create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified **MetadataModel**.

parameterStruct: The **Parameter** containing the **TypeDescriptor** that is updated.

parentTypeDescriptorStruct: The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. This **TypeDescriptor** MUST be NULL if the **TypeDescriptor** specified by the XML is a **root TypeDescriptor**.

settingId: The **Setting** to merge the **Properties** and localized names. If the value is NULL, then protocol server MUST use the default **Setting** while performing the operation.

callerCultureLcid: This value MUST be ignored by the protocol server.

3.1.4.109.2 TypeDescriptorMergeXmlResponse

The **TypeDescriptorMergeXmlResponse** element specifies the result data for the **TypeDescriptorMergeXml WSDL operation**.

```
<xs:element name="TypeDescriptorMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="TypeDescriptorMergeXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

TypeDescriptorMergeXmlResult: The **TypeDescriptor** into which the **Properties** and **localized names** were merged.

errors: List of implementation-specific error messages that occurred while performing this operation.

3.1.4.109.3 Complex Types

None.

3.1.4.109.4 Simple Types

None.

3.1.4.109.5 Attributes

None.

3.1.4.109.6 Groups

None.

3.1.4.109.7 Attribute Groups

None.

3.1.4.110 TypeDescriptorReadXml

This operation is used to create the **TypeDescriptors** contained by the specified **MetadataModel**, along with their **Properties** and **localized names**, in the **metadata store**. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and

MUST have as a root element the **TypeDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.43.

The following is the **WSDL** port type specification of the **TypeDescriptorReadXml WSDL operation**.

```
<wsdl:operation name="TypeDescriptorReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in

Complex Types (section [2.2.4](#)). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
<p>AccessDeniedExceptionState (section 2.2.4.3)</p>	<p>The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the specified Parameter.</p>
<p>ArgumentException (section 2.2.4.7)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The "Model" value is not specified in the packageContents element. ▪ The data type referenced by a TypeDescriptor contained by the MetadataModel is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. ▪ The MetadataModel contains a TypeDescriptor that has "IsCollection" flag set and contains another TypeDescriptor that has "IsCollection" flag set. ▪ The specified TypeDescriptor has "IsCollection" flag set and the TypeDescriptor which correspond to the specified

Error Complex Type	Condition
	<p>MetadataMode I also has "IsCollection" flag set.</p> <ul style="list-style-type: none"> ▪ The specified TypeDescriptor has "IsCollection" flag set and already contains a TypeDescriptor. ▪ The specified TypeDescriptor is NULL and the specified Parameter already has a root TypeDescriptor. ▪ The specified TypeDescriptor is not contained by the specified Parameter. ▪ The specified MetadataMode I contains a TypeDescriptor that has "ReadOnly" flag set and the specified Parameter has direction "In".
<p>DuplicateMetadataObjectExceptionState (section 2.2.4.30)</p>	<p>The specified TypeDescriptor already contains another TypeDescriptor with the same name as the TypeDescriptor which corresponds to the MetadataModel.</p>
<p>ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataMode I contains a TypeDescriptor

Error Complex Type	Condition
	<p>r that contains more TypeDescriptors than the implementation-specific maximum number of TypeDescriptors.</p> <ul style="list-style-type: none"> ▪ The specified TypeDescriptor contains implementation-specific maximum number of TypeDescriptors.
InvalidOperationException (section 2.2.4.38)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The Entity containing the Method that contains the specified Parameter is active. <110> ▪ The specified Parameter does not exist.
MetadataObjectNotFoundExcepState (section 2.2.4.43)	<p>The specified TypeDescriptor does not exist.</p>
PackageFormatExceptionState (section 2.2.4.48)	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified XML does not conform to the format specified in [MS-BDCMFFS]. ▪ The Method containing the specified Parameter does not contain the FilterDescriptor referenced by the specified MetadataModel.

3.1.4.110.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage	The request WSDL message for the TypeDescriptorReadXml WSDL operation .
BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage	The response WSDL message for the TypeDescriptorReadXml WSDL operation .

3.1.4.110.1.1 BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage

The request **WSDL message** for the **TypeDescriptorReadXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml
```

The **SOAP body** contains the **TypeDescriptorReadXml** element.

3.1.4.110.1.2 BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage

The response **WSDL message** for the **TypeDescriptorReadXml WSDL operation**.

The **SOAP body** contains the **TypeDescriptorReadXmlResponse** element.

3.1.4.110.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorReadXml	The input data for the TypeDescriptorReadXml WSDL operation .
TypeDescriptorReadXmlResponse	The result data for the TypeDescriptorReadXml WSDL operation .

3.1.4.110.2.1 TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml WSDL operation**.

```

<xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

xml: The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.43.

packageContents: Specifies what parts of the **MetadataModel** are to be created. The protocol server **MUST** follow the following rules:

- If the "Properties" value is specified, the protocol server **MUST** create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified, the protocol server **MUST** ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server **MUST** create the specified **localized names** for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified **MetadataModel**.

parameterStruct: The **Parameter** in which to create the **TypeDescriptors** contained by the **MetadataModel**.

parentTypeDescriptorStruct: The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. This value of this element **MUST** be NULL if the **MetadataModel** contains the **root TypeDescriptor** of the **Parameter**.

callerCultureLcid: This value **MUST** be ignored.

3.1.4.110.2.2TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml WSDL operation**.

```

<xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

TypeDescriptorReadXmlResult: The **TypeDescriptor** from the **metadata store** that is corresponding to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

3.1.4.110.3 Complex Types

None.

3.1.4.110.4 Simple Types

None.

3.1.4.110.5 Attributes

None.

3.1.4.110.6 Groups

None.

3.1.4.110.7 Attribute Groups

None.

3.1.4.111 Update

This operation is used to update a **MetadataObject** in the **metadata store**.

The following is the **WSDL** port type specification of the **Update WSDL operation**.

```
<wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Update_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Update_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject .
ArgumentException (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> The specified MetadataObject name is NULL or empty. The length of the specified MetadataObject name exceeds 255 characters.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified MetadataObject has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the MetadataObject . For example, this error can be triggered when one context reads the given MetadataObject , after which another context updates the same MetadataObject , and then the original context tries to update the same MetadataObject .
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The parent MetadataObject contains another MetadataObject with the same MetadataObject name.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies: <ul style="list-style-type: none"> The parent of the specified MetadataObject already contains the implementation-specific maximum number of MetadataObjects of the same type as the specified MetadataObject. The specified MetadataObject is a MethodInstance and one of the following conditions holds true: <ul style="list-style-type: none"> The type of the specified MethodInstance is IdEnumerator and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the

Error complex type	Condition
	<p>type IdEnumerator.<111></p> <ul style="list-style-type: none"> ▪ The type of the specified MethodInstance is AccessChecker and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the type AccessChecker.<112> ▪ The type of the specified MethodInstance is Deleter and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the type Deleter.<113> ▪ The type of the specified MethodInstance is ChangedIdEnumerator and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the type ChangedIdEnumerator.<114> ▪ The type of the specified MethodInstance is DeletedIdEnumerator and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the type DeletedIdEnumerator.<115> ▪ The type of the specified MethodInstance is BulkIdEnumerator and the DataClass that contains the specified MethodInstance already contains another MethodInstance that has the type BulkIdEnumerator.<116>
<p>InvalidMetadataObjectExceptionState (section 2.2.4.36)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> ▪ The specified MetadataObject is a root TypeDescriptor, and it is being updated to be part of a Parameter that already has a root TypeDescriptor. ▪ The specified MetadataObject is an Association or a MethodInstance and the Parameter of the specified ReturnTypeDescriptor is not contained by the same Method as the specified Association or MethodInstance.<117> ▪ The specified MetadataObject is an Association or a MethodInstance and the specified type for the MethodInstance requires a Parameter with Direction "In" or "InOut" to be present on the Method containing the specified Association or MethodInstance.<118> The specified type of MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ SpecificFinder ▪ AccessChecker ▪ Updater ▪ Deleter

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ AssociationNavigator ▪ Associator ▪ Disassociator ▪ StreamAccessor ▪ BinarySecurityDescriptorAccessor ▪ BulkSpecificFinder ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ The specified MetadataObject is an Association or a MethodInstance and the Parameter containing the specified ReturnPropertyDescriptor has the Direction attribute specified as "In".<119> ▪ The specified MetadataObject is an Association or a MethodInstance and the ReturnPropertyDescriptor MUST be present for the specified type for the MethodInstance, however it is passed in as NULL or 0.<120> The specified type of MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ AccessChecker ▪ AssociationNavigator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ Scalar ▪ SpecificFinder ▪ StreamAccessor ▪ The specified MetadataObject is an Association or a MethodInstance and the ReturnPropertyDescriptor MUST have the "IsCollection" flag set for the specified type for the MethodInstance. The specified type of MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ SpecificFinder ▪ Scalar

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ AccessChecker ▪ Creator ▪ StreamAccessor ▪ The specified MetadataObject is an Association or a MethodInstance and the ReturnPropertyDescriptor MUST have the "IsCollection" flag not set for the specified type for the MethodInstance. The specified type of MethodInstance is one of the following values: <ul style="list-style-type: none"> ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ The specified MetadataObject is an Association or a MethodInstance and the ReturnPropertyDescriptor MUST NOT contain any TypeDescriptors for MethodInstance of StreamAccessor type. ▪ The specified MetadataObject is a MethodInstance and the TypeDescriptor that contains the ReturnPropertyDescriptor MUST NOT contain any other TypeDescriptors for MethodInstance of StreamAccessor type and the type for the LOBSystem containing the Entity containing MethodInstance of StreamAccessor type is DataBase. ▪ The specified MetadataObject is an Entity and the specified CacheUsage, MajorVersion, MinorVersion, BuildVersion, or RevisionVersion is invalid. ▪ The specified MetadataObject is a Parameter and the specified Direction is invalid. ▪ The specified MetadataObject is a MethodInstance and the specified type is invalid. ▪ The specified MetadataObject is a TypeDescriptor and the specified flags are invalid. ▪ The specified MetadataObject is a Parameter and the Method that contains the specified Parameter already contains another Parameter with Direction "Return". ▪ The specified MetadataObject is a TypeDescriptor and the Parameter containing the specified TypeDescriptor has value "In" for the Direction attribute, but the specified TypeDescriptor has the "Read-Only" flag set for its TypeDescriptorFlags attribute.

Error complex type	Condition
	<ul style="list-style-type: none"> ▪ The specified MetadataObject is a Parameter and the specified Parameter is not allowed to have value "In" for the Direction attribute because one of the TypeDescriptors contained by the specified Parameter has the "Read-Only" flag set for its TypeDescriptorFlags attribute. ▪ The specified MetadataObject is a Parameter and the specified Parameter is not allowed to have the value "In" for the Direction attribute because the specified Parameter contains a ReturnTypeDescriptor of a MethodInstance. ▪ The specified MetadataObject is a TypeDescriptor, which has its Parameter is being changed to the specified Parameter, and the specified Parameter already has a root TypeDescriptor.<121> ▪ The specified MetadataObject is a TypeDescriptor and the "IsCollection" flag cannot be set on a TypeDescriptor if its containing TypeDescriptor also has "IsCollection" flag set. ▪ The specified MetadataObject is a TypeDescriptor and a TypeDescriptor with the "IsCollection" flag set can only contain one TypeDescriptor. ▪ The specified MetadataObject is a TypeDescriptor and the FilterDescriptor associated with the specified TypeDescriptor is not defined on the Method that contains the Parameter containing the specified TypeDescriptor. ▪ The specified MetadataObject is a TypeDescriptor and the Parameter containing the containing TypeDescriptor is different from the Parameter containing the specified TypeDescriptor. ▪ The specified MetadataObject is a TypeDescriptor and the Parameter containing the specified TypeDescriptor has a TypeDescriptor hierarchy deeper than an implementation-specific maximum allowed depth. ▪ The specified MetadataObject is the FilterDescriptor and the Method associated with the specified FilterDescriptor already contains another FilterDescriptor of type TimeStampFilter and the specified FilterDescriptor is updated to be a FilterDescriptor of type TimeStampFilter.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> The operation cannot be performed because the specified MetadataObject is an Association or a MethodInstance contained by an active Entity. <122> The operation cannot be performed because the specified MetadataObject is an Entity, which has its name or namespace being updated, and another Entity with the specified name and namespace is currently being referenced by other MetadataObjects. The operation cannot be performed because the specified MetadataObject is the FilterDescriptor and the Method that contains the specified FilterDescriptor also contains a MethodInstance of type ChangedIdEnumerator or a DeletedIdEnumerator, and the type of the FilterDescriptor is changed from TimeStampFilter to another type.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified MetadataObject does not exist.

Upon successful operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to 0.

If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified **MetadataObject** in the metadata store:

MetadataObject	Action
Parameter	<p>If the ordinalNumber attribute of the specified Parameter is the same as the ordinalNumber attribute of another Parameter contained by the Method containing the specified Parameter, the ordinalNumber attribute of Parameters contained by that Method that have the ordinalNumber attribute greater than or equal to the ordinalNumber attribute of the specified Parameter MUST be incremented.</p> <p>After the operation completes, all Parameters contained by the Method containing the specified Parameter MUST have ordinalNumber attributes in the range from zero to $n-1$, where n is the number of Parameters contained by that Method. Parameters not contained by the Method, which contains the specified Parameter, MUST NOT have their ordinalNumber attributes altered. <123></p>
MethodInstance	<p>When the isDefault attribute of the specified MethodInstance is set to 1, the protocol server MUST set the isDefault attribute of all other MethodInstances that have the same value for the MethodInstanceType attribute within the containing</p>

MetadataObject	Action
	DataClass to 0. When the isDefault attribute of the specified MethodInstance is set to 0 (and it was previously set to 1), the protocol server MUST set the IsDefault attribute of a MethodInstance with the same value for MethodInstanceType within the containing DataClass to 1<124>. The protocol server MUST decide which MethodInstance to alter based on an implementation-specific algorithm.

3.1.4.111.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_Update_InputMessage	The request WSDL message for the Update WSDL operation .
BusinessDataCatalogSharedService_Update_OutputMessage	The response WSDL message for the Update WSDL operation.

3.1.4.111.1.1 BusinessDataCatalogSharedService_Update_InputMessage

The request **WSDL message** for the **Update WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update
```

The **SOAP body** contains the **Update** element.

3.1.4.111.1.2 BusinessDataCatalogSharedService_Update_OutputMessage

The response **WSDL message** for the **Update WSDL operation**.

The **SOAP body** contains the **UpdateResponse** element.

3.1.4.111.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
Update	The input data for the Update WSDL operation .
UpdateResponse	The result data for the Update WSDL operation.

3.1.4.111.2.1 Update

The **Update** element specifies the input data for the **Update WSDL operation**.

```
<xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** to update [<125>](#). The **MetadataObjectId** of the specified **MetadataObject** MUST be used to identify the **MetadataObject** to update. The remaining values of the specified **MetadataObject** MUST be used to update the values associated with the identified **MetadataObject** in the **metadata store**.

3.1.4.111.2.2 UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update WSDL operation**.

```
<xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UpdateResult: The updated **MetadataObject**.

3.1.4.111.3 Complex Types

None.

3.1.4.111.4 Simple Types

None.

3.1.4.111.5 Attributes

None.

3.1.4.111.6 Groups

None.

3.1.4.111.7 Attribute Groups

None.

3.1.4.112 WriteSlicedXml

This operation is deprecated from the protocol and MUST NOT [<126>](#) be called.

The following is the **WSDL** port type specification of the **WriteSlicedXml WSDL operation**.

```

<wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

3.1.4.112.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage	The request WSDL message for the WriteSlicedXml WSDL

Message	Description
	operation.
BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage	The response WSDL message for the WriteSlicedXml WSDL operation.

3.1.4.112.1.1 BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage

The request **WSDL message** for the **WriteSlicedXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml
```

The **SOAP body** contains the **WriteSlicedXml** element.

3.1.4.112.1.2 BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage

The response **WSDL message** for the **WriteSlicedXml WSDL operation**.

The **SOAP body** contains the **WriteSlicedXmlResponse** element.

3.1.4.112.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
WriteSlicedXml	The input data for the WriteSlicedXml WSDL operation .
WriteSlicedXmlResponse	The result data for the WriteSlicedXml WSDL operation.

3.1.4.112.2.1 WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml WSDL operation**.

```
<xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: Deprecated.

packageContents: Deprecated.

3.1.4.112.2 WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml WSDL operation**.

```
<xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

WriteSlicedXmlResult: Deprecated.

3.1.4.112.3 Complex Types

None.

3.1.4.112.4 Simple Types

None.

3.1.4.112.5 Attributes

None.

3.1.4.112.6 Groups

None.

3.1.4.112.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view on how the protocol client operates with the protocol server when executing such an operation.

The examples in this section manipulate the **LobSystem** and **Entity** objects. However, the principals illustrated apply equally to other MetadataObjects.

4.1 Creating an LobSystem

This example illustrates how a user can create an **LobSystem** in the **metadata store**.

The following actions are carried out:

1. The user requests the protocol client to create an **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **MetadataObjectCreate** method as shown in the following sample code segment:

```
// Assumes a Service Reference to the Business Data Catalog shared service has been created

// Instantiate the Business Data Catalog SharedService client
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

// Instantiate the AdministrationMetadataCatalogStruct
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct();
myBDC.id = 1;

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myBDC.partitionId = myPartition;

// Instantiate the LobSystem object
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();

// Setup the LobSystem object
myLob.partitionId = myPartition;
myLob.name = "ExampleCRM";
myLob.systemType = BDCServiceReference.SystemType.Database;

// call the MetadataObjectCreate method to create the LobSystem.
myClient.MetadataObjectCreate(myLob, myBDC);
```

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>0</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </rawValues>
    </MetadataObjectCreate>
  </s:Body>
</s:Envelope>
```

```

    </rawValues>
    <parentStruct i:type="a:AdministrationMetadataCatalogStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
      <a:id>1</a:id>
      <a:isCached>>false</a:isCached>
      <a:name i:nil="true"/>
      <a:objectVersion>0</a:objectVersion>
      <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    </parentStruct>
  </MetadataObjectCreate>
</s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreateResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="a:LobSystemStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </MetadataObjectCreateResult>
    </MetadataObjectCreateResponse>
  </s:Body>
</s:Envelope>

```

4.2 Setting the Security Information of a MetadataObject

This example illustrates how a user can set Security Information of an **LobSystem**.

This example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to set **ACEs** on the **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **SetAccessControlEntries** method as shown in the following sample code segment:

```

//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;
BDCServiceReference.AccessControlEntryStruct myACL;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// ***** Any implementation-specific impersonation logic goes here *****

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

```

```

//setup the ACL object
myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
myACL.rights = 23;
myACL.principalName = "Domain\\UserName";
myACL.principalDisplayName = "UserName";

myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] { myACL };

// set the ACL on the metadataobject by calling the SetAccessControlEntries method
myClient.SetAccessControlEntries(myLob, myACLs, null);

```

Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </metadataObjectStruct>
      <accessControlEntries xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a:AccessControlEntryStruct>
      </accessControlEntries>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </SetAccessControlEntries>
  </s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SetAccessControlEntriesResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.3 Reading the Security Information of a MetadataObject

This example illustrates how a user can read the **ACEs** of an **LobSystem**.

This example assumes that the preceding examples have been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** identified by name "ExampleCRM".

2. The protocol client calls the **GetAccessControlEntries** method as shown in the following code segment:

```
//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// ***** Any implementation-specific impersonation logic goes here *****/

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Read the ACL entries on the entity
myACLs = myClient.GetAccessControlEntries(myLob, null, true);
```

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </metadataObjectStruct>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      <fallback>>true</fallback>
    </GetAccessControlEntries>
  </s:Body>
</s:Envelope>
```

Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntriesResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a:AccessControlEntryStruct>
      </GetAccessControlEntriesResult>
    </GetAccessControlEntriesResponse>
  </s:Body>
</s:Envelope>
```

4.4 Creating an Entity

This example illustrates how a user can create an **Entity** in the **metadata store**.

The example assumes that:

- An **LobSystem** that will contain the **Entity** is already created in the metadata store.
- The **LobSystem** is identified by the name "ExampleCRM".
- The **PartitionId** used while creating the **LobSystem** is "00000000-0000-0000-0000-000000000000".
- The **LobSystem** has an **ACE** associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** with the name "Customer", the namespace "example.com", and an estimated instance count of 100.
2. The protocol client calls the **EntityCreate** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//Get LOB system first as it is needed for creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Instantiate entity object
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

//set properties
myEntity.name = "Customer";
myEntity.@namespace = "example.com";
myEntity.isCached = true;
myEntity.objectVersion = 0;
System.Version ver = new Version(1,0,0,0);
myEntity.version = ver;
myEntity.partitionId = myPartition;
myEntity.estimatedInstanceCount = 100;

//create entity
myClient.EntityCreate(myEntity,myLob,null);
```

3. The protocol server creates the **Entity** in the metadata store.
4. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>0</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
      </rawValues>
    </EntityCreate>
  </s:Body>
</s:Envelope>
```

```

    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
      <b:_Build>0</b:_Build>
      <b:_Major>1</b:_Major>
      <b:_Minor>0</b:_Minor>
      <b:Revision>0</b:Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
  </rawValues>
  <lobSystemStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <a:id>122</a:id>
    <a:isCached>false</a:isCached>
    <a:name>ExampleCRM</a:name>
    <a:objectVersion>0</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    <a:systemType>Database</a:systemType>
  </lobSystemStruct>
  <modelStruct i:nil="true" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</EntityCreate>
</s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <EntityCreateResult xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </EntityCreateResult>
    </EntityCreateResponse>
  </s:Body>
</s:Envelope>

```

4.5 Activating an Entity

This example illustrates how a user can set a version of an **Entity** to be active in the **metadata store**.

This example assumes that:

- The preceding examples have been successfully executed.

- After successfully creating the "Customer" **Entity**, the user has added some other **MetadataObjects** to; an **Identifier**, **Method**, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** with the name "Customer", the namespace "example.com", and the **PartitionId** "00000000-0000-0000-0000-000000000000".
2. The protocol client calls the **Activate** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1,0,0,0);

myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer", ver,
partition);

BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);
```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
</s:Envelope>
```

Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
```

```

<s:Body>
  <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
    <ActivateResult xmlns:a="Microsoft.SharePoint.BusinessData"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <a:id>135</a:id>
      <a:isCached>true</a:isCached>
      <a:name>Customer</a:name>
      <a:objectVersion>1</a:objectVersion>
      <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
      <a:active>true</a:active>
      <a:lobSystemId>122</a:lobSystemId>
      <a:modelId>0</a:modelId>
      <a:namespace>example.com</a:namespace>
      <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
        <b:_Build>0</b:_Build>
        <b:_Major>1</b:_Major>
        <b:_Minor>0</b:_Minor>
        <b:_Revision>0</b:_Revision>
      </a:version>
      <a:cacheUsage>Default</a:cacheUsage>
      <a:description i:nil="true"/>
      <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
    </ActivateResult>
  </ActivateResponse>
</s:Body>
</s:Envelope>

```

4.6 Reading an Entity

This example shows how a user can read an **Entity** in the **metadata store**.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** with the name "Customer" and the namespace "example.com" from the metadata store.
2. The protocol client calls the **GetEntityWithNameAndNamespace** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
5. The protocol server returns an **Entity** object to the protocol client.

Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespace
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
    </GetEntityWithNameAndNamespace>
  </s:Body>
</s:Envelope>

```

```

        <name>Customer</name>
        <partitionId>00000000-0000-0000-0000-000000000000</partitionId>
    </GetEntityWithNameAndNamespace>
</s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </GetEntityWithNameAndNamespaceResult>
    </GetEntityWithNameAndNamespaceResponse>
  </s:Body>
</s:Envelope>

```

4.7 Creating Properties for MetadataObjects

This example shows how a user can create **Properties** for an **Entity** in the **metadata store**. The concepts can be applied to any other **MetadataObject**.

The example assumes that the preceding examples have been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to create a Property for the **Entity** with the name "Customer" and the namespace "example.com".
2. To add a custom property called "CustomerAlternateName", the protocol client calls the **SaveProperty** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
BDCServiceReference.PropertyStruct myProperty = new BDCServiceReference.PropertyStruct();
System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

```

```
//Get the entity object using the name and namespace
myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

//Setup the Property object
myProperty.name = "CustomerAlternateName";
myProperty.typeName = "System.String";
myProperty.settingId = null;

//Add the custom property to the entity object
myClient.SaveProperty(myEntity, myProperty);
```

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b: Build>0</b: Build>
          <b: _Major>1</b: _Major>
          <b: _Minor>0</b: _Minor>
          <b: _Revision>0</b: _Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
      <propertyStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:needsTypeReflectionResolution>>false</a:needsTypeReflectionResolution>
        <a:wcfMarshallableValue i:nil="true"/>
        <a:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
        <a:wcfMarshallableValueType i:nil="true"/>
        <a:metadataObjectId>0</a:metadataObjectId>
        <a:name>CustomerAltName</a:name>
        <a:settingId i:nil="true"/>
        <a:typeName>System.String</a:typeName>
      </propertyStruct>
    </SaveProperty>
  </s:Body>
</s:Envelope>
```

Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

4.8 Adding Localized Names for MetadataObjects

This example shows how a user can add a **localized name** for an **Entity** in the **metadata store**. The concepts can be applied to any other **MetadataObject**.

The example assumes that the preceding examples have been successfully executed and that the user wants to create the localized name for **LCID 2058**.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** with the name "Customer" and the namespace "example.com".
2. The protocol client calls the **SaveLocalizedName** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
```

3. The protocol server checks whether an Entity with name "Customer" and namespace "example.com" exists in the Metadata store.
4. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:Build>0</b:Build>
          <b:Major>1</b:Major>
          <b:Minor>0</b:Minor>
          <b:Revision>0</b:Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
    </SaveLocalizedName>
  </s:Body>
</s:Envelope>
```

```

        <lcid>2058</lcid>
        <name>Cliente</name>
        <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </SaveLocalizedName>
</s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveLocalizedNameResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.9 Updating an Entity

This example illustrates how a user can update an **Entity** in the **metadata store**.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** with the name "Customer" and the namespace "example.com" and change its name from "Customer" to "Buyer".
2. The protocol client calls the **Update** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

// Set the name property to "Buyer"
myEntity.name = "Buyer";

// Call update method.
myClient.Update(myEntity);

```

3. The protocol server checks if the **Entity** exists in the metadata store.
4. If it exists, the protocol server updates all the name attribute of the **Entity** with the supplied value.

Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">

```

```

    <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
    <a:id>135</a:id>
    <a:isCached>true</a:isCached>
    <a:name>Buyer</a:name>
    <a:objectVersion>2</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    <a:active>true</a:active>
    <a:lobSystemId>122</a:lobSystemId>
    <a:modelId>0</a:modelId>
    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
    <b:_Build>0</b:_Build>
    <b:_Major>1</b:_Major>
    <b:_Minor>0</b:_Minor>
    <b:_Revision>0</b:_Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
    </metadataObjectStruct>
  </Update>
</s:Body>
</s:Envelope>

```

Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </UpdateResult>
    </UpdateResponse>
  </s:Body>
</s:Envelope>

```

4.10 Deleting an Entity

This example illustrates how a user can delete an **Entity** in the **metadata store**.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** with the name "Buyer" and the namespace "example.com".
2. The protocol client calls the **Delete** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer", myPartition);
myClient.Delete(myEntity);
```

3. The protocol server checks if the Entity exists in the Metadata store.
4. If it exists, the protocol server deletes the Entity from the Metadata store.

Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b: Build>0</b: Build>
          <b: Major>1</b: Major>
          <b: Minor>0</b: Minor>
          <b: Revision>0</b: Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>
```

Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns4="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administ
ration.Client.Constants"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
      <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
      <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="BusinessDataCatalogSharedService">
    <wsdl:operation name="GetServiceApplicationId">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPartitionIds">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIds"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFau
lt_FaultMessage"/>
    </wsdl:operation>
  </wsdl:portType>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ReadSlicedXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXml"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="WriteSlicedXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService WriteSlicedXml AccessDeniedExceptionFault Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService WriteSlicedXml MetadataExceptionStateFault Faul
tMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService WriteSlicedXml PackageFormatExceptionStateFault
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="HaveRights">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights"
message="tns:BusinessDataCatalogSharedService_HaveRights_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService HaveRights OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService HaveRights ArgumentOutOfRangeExceptionFault Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService HaveRights BdcExceptionStateFault FaultMessage"
/>
  </wsdl:operation>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMes
sage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inp
utMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Met
adataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMe
ssage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExce
ptionStateFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invalid
OperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllProperties"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SaveLocalizedName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedName"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultM
essage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ClearLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNames"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault
_FaultMessage"/>

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    </wsdl:operation>
    <wsdl:operation name="RemoveLocalizedName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedName"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentNullExceptionFault
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InvalidOperationExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SaveProperty">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveProperty"
message="tns:BusinessDataCatalogSharedService SaveProperty InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyResponse"
message="tns:BusinessDataCatalogSharedService SaveProperty OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeException_F
aultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultM
essage"/>
  </wsdl:operation>
  <wsdl:operation name="ClearProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearProperties"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="RemoveProperty">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveProperty"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyResponse"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveProperty ArgumentExceptionFault FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExcep
tionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries MetadataExceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="SetAccessControlEntries">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"

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name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse"
message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"
/>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse"
message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage
"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectMergeXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectMergeXml PackageFormatExceptionSt
ateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="MetadataObjectReadXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXml"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml PackageFormatExceptionSta
teFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="MetadataObjectWriteXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml ArgumentNullExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml ArgumentOutofRangeExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="CopyAclAcrossChildren">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault
FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutofRangeExcepti
onFault_FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren BdcExceptionStateFault Fa
ultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren InvalidOperationException
Fault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFau
lt FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildrenForSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcepti
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcepti
onStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclToSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMe
ssage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetCacheInvalidationRecordsSince">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullEx
ceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfR
angeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionSt
ateFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatE
xceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackage"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackageWithProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentExceptionFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentNullException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentOutOfRangeExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress BdcExceptionStateFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress InvalidOperationExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress MetadataExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress PackageFormatExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetImportProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgress"
message="tns:BusinessDataCatalogSharedService GetImportProgress InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgressResponse"
message="tns:BusinessDataCatalogSharedService GetImportProgress OutputMessage"/>
    </wsdl:operation>
  <wsdl:operation name="ExportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackage"
message="tns:BusinessDataCatalogSharedService ExportPackage InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage"/>
  </wsdl:operation>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultM
essage"/>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMes
sage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Faul
tMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMes
sage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_
FaultMessage"/>
                    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fau
ltMessage"/>
                      </wsdl:operation>
                      <wsdl:operation name="GetModelByName">
                        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InputMessage"/>
                          <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"/>
                            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMes
sage"/>
                              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fault
Message"/>
                                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelByName ArgumentOutOfRangeExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetModelByName BdcExceptionStateFault FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelsByEntityId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId ArgumentOutOfRangeException Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeException
Fault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="AddEntityToModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/AddEntityToModelResponse"
message="tns:BusinessDataCatalogSharedService AddEntityToModel OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel BdcExceptionStateFault FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel MetadataExceptionStateFault Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="RemoveEntityFromModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModel"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelResponse"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel BdcExceptionStateFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationException
Fault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFau
lt FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteNoCascade">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentExceptionFault FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentNullExceptionFault Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ModelReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns:BusinessDataCatalogSharedService ModelReadXml InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml ArgumentExceptionFault FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml ArgumentNullExceptionFault FaultMe
ssage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeException_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inp
utMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeException_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeException_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bdc
ExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inv
alidOperationExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Met
adataExceptionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemAllAssembliesBytes">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemDataByLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
xceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetLobSystemDataByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptio
nFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptio
nStateFault FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentNullExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_BdcExceptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InvalidOperationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemByName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName BdcExceptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName InvalidOperationExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName BdcExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName InvalidOperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFau
lt_Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntityCount">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCount"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityCount InvalidOperationExceptionFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService GetSystemUtilityTypeNameForLobSystem InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetSystemUtilityTypeNameForLobSystem ArgumentEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOpe
rationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem ArgumentExcep
tionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem InvalidOperat
ionExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem MetadataExcep
tionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentExcepti
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentNullExc
eptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentOutOfRa
ngeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem BdcExceptionSta
teFault FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstancesForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstanceById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetDataClassesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassesForSystem InvalidOperationExceptionExcepti
onFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns:BusinessDataCatalogSharedService GetDataClassById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById BdcExceptionStateFault FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesReferencedByModelId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService GetEntitiesReferencedByModelId InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService GetEntitiesReferencedByModelId OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"

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name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExce
ptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperatio
nExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetEntitiesLikeNameAndNamespace">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"/
>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExcepti
onFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExc
eptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSta
teFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperatio
nExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace MetadataExcepti
onStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespace">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace InvalidOperationExceptionE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMe
ssage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespaceAndVersion OutputM
essage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespaceAndVersion Argumen
tExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystem"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeException
nFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFaul
t FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForAssociationAndRole">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcept
ionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetDefaultActionForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity ArgumentOutOfRangeExceptionExc
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity BdcExceptionStateFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity InvalidOperationExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
eFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetEntityById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityById"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="EntityCreate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Activate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse"
message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Deactivate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate"
message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse"
message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fau
ltMessage"/>
    </wsdl:operation>
    <wsdl:operation name="BulkSwitchActiveOrValidate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate InvalidOperationExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionSta
teFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcepti
onStateFault FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetActionById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionById"
message="tns:BusinessDataCatalogSharedService GetActionById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionById MetadataExceptionStateFault Fault
Message"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionParametersForAction">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetIdentifiersForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
message="tns:BusinessDataCatalogSharedService_GetMethodById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService GetMethodById OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeException_FaultMessa
ge"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultM
essage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeException_Fault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessa
ge"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Fault
Message"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass InvalidOperationExceptio
nFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFa
ult FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="IsMethodInstantiated">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionEx
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFau
lt FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFilterDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFa
ult_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExcepi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFilterDescriptorsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstanceById">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CheckPathInMethodInstances">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/CheckPathInMethodInstancesResponse"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFau
lt FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetParametersForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetParametersForMethod"
message="tns:BusinessDataCatalogSharedService GetParametersForMethod InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetParametersForMethod ArgumentExceptionFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="IsParameterReferencedByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance InputMes
sage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance OutputMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argu
mentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argu
mentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argu
mentOutOfRangeExceptionExceptionFault FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcept
ionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataE
xceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentEx
ceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNu
llExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOu
tOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcepti
onStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataEx
ceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance InputMe
ssage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance OutputM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance Argumen
tExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExce
ptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadat
aExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeException
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFau
lt FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetRootTypeDescriptorForParameter">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage
"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExcep
tionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullE
xceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOf
RangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionS
tateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperat
ionExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExcep
tionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
putMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Ou
tputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Bd
cExceptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
validOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Me
tadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputM
essage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Output
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntExceptionFault_FaultMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntNullExceptionFault FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntOutOfRangeExceptionFault FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExc
eptionStateFault FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Invali
dOperationExceptionFault FaultMessage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetChildTypeDescriptorsForTypeDescriptor MetadataExceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor BdcExceptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InvalidOperationExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentExceptionFault FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor InvalidOperationExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLevelForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault
 FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullException
Fault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExc
eptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExcep
tionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStat
eFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="TypeDescriptorCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreate"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeException
nFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionF
ault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorCreate MetadataExceptionStateFault
FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXml"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml ArgumentNullExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml BdcExceptionStateFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml InvalidOperationExceptionExceptio
nFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionSt
ateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault
 FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionExcepi
onFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSta
teFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationById"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFau
lt FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationById MetadataExceptionStateFault
FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"/
>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForEntityAndRole ArgumentNullExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSta
teFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcepti
onStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForDataClass">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass ArgumentExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetAssociationMembersInRole">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExc
eptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionSt
ateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationGroupById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupById"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bdc
ExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Inv
alidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Met
adataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Input
Message"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetXmlSchemaForView">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForView"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewResponse"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault
FaultMessage"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="DefaultBinding_BusinessDataCatalogSharedService"
type="tns:BusinessDataCatalogSharedService">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="GetServiceApplicationId">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetServiceApplicationId" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetAllPartitionIds">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPartitionIds" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
      <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

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<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReadSlicedXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ReadSlicedXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="WriteSlicedXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/WriteSlicedXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="HaveRights">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/HaveRights" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNamesForMetadataObjectStruct" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>

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```

    <wsdl:operation name="GetAllLocalizedNames">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNames" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentException">
        <soap:fault use="literal" name="ArgumentException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullException">
        <soap:fault use="literal" name="ArgumentNullException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeException">
        <soap:fault use="literal" name="ArgumentOutOfRangeException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationException">
        <soap:fault use="literal" name="InvalidOperationException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPropertiesForMetadataObjectStruct" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentException">
        <soap:fault use="literal" name="ArgumentException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullException">
        <soap:fault use="literal" name="ArgumentNullException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeException">
        <soap:fault use="literal" name="ArgumentOutOfRangeException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationException">
        <soap:fault use="literal" name="InvalidOperationException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllProperties">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllProperties" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentException">

```

```

    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveLocalizedName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveLocalizedName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearLocalizedNames" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

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    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="RemoveLocalizedName">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveLocalizedName" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="SaveProperty">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveProperty" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="ClearProperties">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearProperties" style="document"/>

```

```

<wsdl:input>
  <soap:body use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveProperty">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAccessControlEntries">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAccessControlEntries" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetAccessControlEntries">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetAccessControlEntries" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectCreate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectCreate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">

```

```

        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Update">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Update" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Delete">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Delete" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectMergeXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectMergeXml" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectWriteXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectWriteXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

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<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildren">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildren" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildrenForSetting">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildrenForSetting" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

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</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclToSetting">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclToSetting" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetCacheInvalidationRecordsSince">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetCacheInvalidationRecordsSince" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">

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        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackage">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackage" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackageWithProgress">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackageWithProgress" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetImportProgress">

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    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetImportProgress" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ExportPackage">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ExportPackage" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByName">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByName" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetModelByName">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelByName" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByEntityId">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByEntityId" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>

```

```

</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddEntityToModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddEntityToModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveEntityFromModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveEntityFromModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteNoCascade">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteNoCascade" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ModelReadXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ModelReadXml" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemProxyAssemblyBytesByLobSystemId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemAllAssembliesBytes">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemAllAssembliesBytes" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemDataByLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemDataByLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

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<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetLobSystemDataByLobSystemId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetLobSystemDataByLobSystemId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

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        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetLobSystemByName">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemByName" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetLobSystemsLikeName">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsLikeName" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetLobSystemById">

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```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityCount">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityCount" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetSystemUtilityTypeNameForLobSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GenerateProxyAssemblyForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteProxyAssemblyForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

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        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstancesForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstancesForLobSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstanceById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstanceById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassesForSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassesForSystem" style="document"/>
    <wsdl:input>

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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesReferencedByModelId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesReferencedByModelId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>

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<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesLikeNameAndNamespace">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesLikeNameAndNamespace" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespace">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityWithNameAndNamespace" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>

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        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityWithNameAndNamespaceAndVersion" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesForSystem">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForSystem" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesForAssociationAndRole">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForAssociationAndRole" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>

```

```

</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultActionForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultActionForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityNameAndNamespacesForAssociationAndRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

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    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="EntityCreate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/EntityCreate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="Activate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Activate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Deactivate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Deactivate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="BulkSwitchActiveOrValidate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/BulkSwitchActiveOrValidate" style="document"/>

```

```

<wsdl:input>
  <soap:body use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionsForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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<wsdl:fault name="MetadataExceptionStateFault">
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</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParameterById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParametersForAction">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParametersForAction" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

```

        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifierById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifierById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifiersForEntity" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodById" style="document"/>
    <wsdl:input>

```

```

    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodsForDataClass">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodsForDataClass" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="IsMethodInstantiated">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsMethodInstantiated" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorsForMethod">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorsForMethod" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>

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    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetMethodInstanceById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstanceById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetMethodInstancesForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForDataClass" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetMethodInstancesForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForMethod" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>

```

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</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CheckPathInMethodInstances">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CheckPathInMethodInstances" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParameterById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">

```

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        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetParametersForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParametersForMethod" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="IsParameterReferencedByMethodInstance">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsParameterReferencedByMethodInstance" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="GetTypeReflectorTypeNameForParameter">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeReflectorTypeNameForParameter" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFieldTypeDescriptorsByMethodInstance" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetRootTypeDescriptorForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsByNameAndLevelForParameter" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsForTypeDescriptor" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsForFilterDescriptor" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDefaultValuesForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultValuesForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

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```

        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteDefaultValueForTypeDescriptor" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLevelForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLevelForTypeDescriptor" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorCreate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorCreate" style="document"/>
    <wsdl:input>

```

```

    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorMergeXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForEntityAndRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

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        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAssociationsForDataClass">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForDataClass" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAssociationsForMethod">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForMethod" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAssociationMembersInRole">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationMembersInRole" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupsForEntity" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationReferencesForAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationReferencesForAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddAssociationReferenceToAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddAssociationReferenceToAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

```

        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteAssociationReferenceFromAssociationGroup" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetXmlSchemaForView" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage
">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Activate_InputMessage">
      <wsdl:part name="parameters" element="tns:Activate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Activate_OutputMessage">
      <wsdl:part name="parameters" element="tns:ActivateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage
">
      <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExce
ptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNull
ExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutO
fRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcException
StateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage
">
      <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroup"/>

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```

    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
      element="q4:MetadataException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:AddAssociationReferenceToAssociationGroupResponse"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
      xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
      name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_InputMessage">
    <wsdl:part name="parameters" element="tns:AddEntityToModel"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
      element="q4:MetadataException"/>
    </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddEntityToModelResponse"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q2:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeExcep
tion Fault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeExcep
tion"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidate"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExcep
tionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationExcep
tion"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidateResponse"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstances"/>
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_
FaultMessage">

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    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstancesResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearLocalizedNames"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearLocalizedNamesResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearProperties"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearPropertiesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildren"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault
_FaultMessage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionF
ault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExceptionExce
ptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSetting"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperationExcept
ionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionState
Fault FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSettingResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSetting"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSettingResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_InputMessage">
    <wsdl:part name="parameters" element="tns:Deactivate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeactivateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_InputMessage">
    <wsdl:part name="parameters" element="tns:Delete"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExce
ptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMe
ssage">
    <wsdl:part name="parameters"
element="tns:DeleteAssociationReferenceFromAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Invalid
OperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Metadat
aExceptionStateFault_FaultMessage">

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    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputM
essage">
    <wsdl:part name="parameters"
element="tns>DeleteAssociationReferenceFromAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionF
ault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRange
ExceptionFault_FaultMessage">
          <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateF
ault_FaultMessage">
            <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage">
              <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptor"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationEx
ceptionFault_FaultMessage">
                <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionS
tateFault_FaultMessage">
                  <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage">
                    <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptorResponse"/>
                    </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage">
                      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessag
e">
                        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                        </wsdl:message>
                        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_Fault
Message">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage">
      <wsdl:part name="parameters" element="tns>DeleteNoCascade"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_FaultMe
ssage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessa
ge">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage">
          <wsdl:part name="parameters" element="tns>DeleteNoCascadeResponse"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault
_FaultMessage">
          <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionF
ault FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExce
ptionFault FaultMessage">
              <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault
FaultMessage">
                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage">
                  <wsdl:part name="parameters" element="tns>DeleteProxyAssemblyForLobSystem"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExcept
ionFault FaultMessage">
                  <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionState
Fault FaultMessage">
                    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteProxyAssemblyForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:EntityCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:EntityCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault FaultMes
sage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_InputMessage">
    <wsdl:part name="parameters" element="tns:ExportPackage"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns:ExportPackageResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullExceptio
nFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOfRangeEx
ceptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionStateFau
lt FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperationExce
ptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExceptionSta
teFault FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParameterById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParameterByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_Fa
ultMessage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionExcepti
onFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
        </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_Fa
ultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
          </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
          <wsdl:part name="parameters" element="tns:GetActionParametersForAction"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationException
Fault_FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
              </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFau
lt_FaultMessage">
              <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
                <wsdl:part name="parameters" element="tns:GetActionParametersForActionResponse"/>
                  </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessag
e">
                  <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                    </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMe
ssage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                      </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_F
aultMessage">
                      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                        </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessag
e">
                        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                          </wsdl:message>
                        <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage">
                          <wsdl:part name="parameters" element="tns:GetActionsForEntity"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNames"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesForMetadataObjectStruct"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetAllLocalizedNamesForMetadataObjectStructResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIds"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage">

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        <wsdl:part name="parameters" element="tns:GetAllPartitionIdsResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAllProperties"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMess
age">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAllPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfR
angeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionSt
ateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPropertiesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExcepti
onStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetAllPropertiesForMetadataObjectStructResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault FaultMe
ssage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMe
ssage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
        </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
          </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage">
          <wsdl:part name="parameters" element="tns:GetAssociationGroupById"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
              </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage">
              <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
                <wsdl:part name="parameters" element="tns:GetAssociationGroupByIdResponse"/>
                  </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage">
                  <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                    </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFault_FaultMessage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                      </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
                      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                        </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_FaultMessage">
                        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                          </wsdl:message>
                        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
                          <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntity"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationReferencesForAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetAssociationReferencesForAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">

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    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClass"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClassResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRole"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRoleResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultM
essage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_F
aultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptio
nFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExc
eptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFaul
t_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSince"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExcept
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSinceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExcept
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage"
>
    <wsdl:part name="parameters" element="tns:GetChildTypeDescriptorsForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage">

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    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage
">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_InputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>

```

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassesForSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystemResponse"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault
_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityCount"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityCountResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_BdcExc
eptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Inpu
tMessage">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRole"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceAndVersion"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetEntityWithNameAndNamespaceAndVersionResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFieldTypeDescriptorsByMethodInstance"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperati
onExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExcept
ionStateFault_FaultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
>
      <wsdl:part name="parameters"
element="tns:GetFieldTypeDescriptorsByMethodInstanceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMe
ssage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_Fau
ltMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFau
lt FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMe
ssage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage">
      <wsdl:part name="parameters" element="tns:GetFilterDescriptorById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault
_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_Fa
ultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetFilterDescriptorByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptionFault F
aultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifierById"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifierByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifiersForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifiersForEntityResponse"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_InputMessage">
    <wsdl:part name="parameters" element="tns:GetImportProgress"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetImportProgressResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_Fault
Message">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionExcep
tionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage">

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        <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytes"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExcepti
onFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateF
ault FaultMessage">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault FaultMess
age">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage
">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMes
sage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemByName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemByNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemsLikeName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemsLikeNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel A
rgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel A
rgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_B
dcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nputMessage">
    <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModel"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_O
utputMessage">
    <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstanceById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodsForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>

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    <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_InputMessage">
      <wsdl:part name="parameters" element="tns:GetModelById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessa
ge">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"
>
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetModelByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage
">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultM
essage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_InputMessage">
      <wsdl:part name="parameters" element="tns:GetModelByName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMes
sage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessag
e">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetModelByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessag
e">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMe
ssage">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessag
e">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
          <wsdl:part name="parameters" element="tns:GetModelsByEntityId"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_Fau
ltMessage">
          <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultM
essage">
            <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
              </wsdl:message>
            <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage">
              <wsdl:part name="parameters" element="tns:GetModelsByEntityIdResponse"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage">
              <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessag
e">
                <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                  </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_Fault
Message">
                  <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                    </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage">
                    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                      </wsdl:message>
                      <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_InputMessage">
                        <wsdl:part name="parameters" element="tns:GetModelsByName"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMe
ssage">
                        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                          </wsdl:message>
                        <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessa
ge">
                          </wsdl:message>

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    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetModelsByNameResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetParameterById"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetParameterByIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetParametersForMethod"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetParametersForMethodResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameter"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameterResponse"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationId"/>
  </wsdl:message>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentN
ullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExcept
ionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMess
age">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorsByNameAndLevelForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOp
erationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataE
xceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMes
sage">
    <wsdl:part name="parameters"
element="tns:GetTypeDescriptorsByNameAndLevelForParameterResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStat
eFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorsForFilterDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperation
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetTypeDescriptorsForFilterDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameterResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView InputMessage">
    <wsdl:part name="parameters" element="tns:GetXmlSchemaForView"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage">

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    <wsdl:part name="parameters" element="tns:GetXmlSchemaForViewResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_InputMessage">
    <wsdl:part name="parameters" element="tns:HaveRights"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_OutputMessage">
    <wsdl:part name="parameters" element="tns:HaveRightsResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_InputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackage"/>
  </wsdl:message>

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```

    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgress"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgressResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateF
ault_FaultMessage">

```

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    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault
FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessa
ge">
                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage">
                    <wsdl:part name="parameters" element="tns:IsMethodInstantiated"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_Fa
ultMessage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_Fault
Message">
                        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                          </wsdl:message>
                          <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
                            <wsdl:part name="parameters" element="tns:IsMethodInstantiatedResponse"/>
                          </wsdl:message>
                          <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptio
nFault_FaultMessage">
                            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                              </wsdl:message>
                              <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExce
ptionFault_FaultMessage">
                                <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                                  </wsdl:message>
                                  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRan
geExceptionFault_FaultMessage">
                                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                                      </wsdl:message>
                                      <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStat
eFault_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns:IsParameterReferencedByMethodInstance"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperation
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
    <wsdl:part name="parameters"
element="tns:IsParameterReferencedByMethodInstanceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreateResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectMergeXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFaul
t FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectReadXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFaul
t FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectWriteXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_Fau
ltMessage">

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    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectWriteXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:ModelReadXml"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage">
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ModelReadXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage">
>
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage">

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    <wsdl:part name="parameters" element="tns:RemoveEntityFromModel"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_Fault
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveEntityFromModelResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveLocalizedName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveLocalizedNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessag
e">

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    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
          </wsdl:message>
          <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_InputMessage">
            <wsdl:part name="parameters" element="tns:RemoveProperty"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMes
sage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessag
e">
                <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
                    <wsdl:part name="parameters" element="tns:RemovePropertyResponse"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
>
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMess
age">
                        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                          </wsdl:message>
                          <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
                            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                              </wsdl:message>
                              <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
>
                                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                                  </wsdl:message>
                                  <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage">
                                    <wsdl:part name="parameters" element="tns:SaveLocalizedName"/>
                                  </wsdl:message>
                                  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_Fault
Message">
                                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                                      </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage">
    <wsdl:part name="parameters" element="tns:SaveLocalizedNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_InputMessage">
    <wsdl:part name="parameters" element="tns:SaveProperty"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns:SavePropertyResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultActionForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage">

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        <wsdl:part name="parameters" element="tns:SetDefaultActionForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage">
        <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage">
        <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorCreateResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFaul
t FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorReadXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_InputMessage">
    <wsdl:part name="parameters" element="tns:Update"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService WriteSlicedXml InputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService WriteSlicedXml OutputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
</wsdl:definitions>

```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	q1	7.1
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	tns1	7.2
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	tns2	7.3
Microsoft.BusinessData.SharePoint	q4	7.4
http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants	tns3	7.5
Microsoft.SharePoint.BusinessData	q5	7.6
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q9	7.7
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.8
http://schemas.datacontract.org/2004/07/System	q2	7.9
http://www.microsoft.com/Office/2009/BusinessDataCatalog	tns	7.10

For ease of implementation, the following sections provide the full XML schema for this protocol.

7.1 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure> Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="BdcExceptionState">
    <xs:sequence>
      <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="BdcExceptionState" nillable="true" type="q1:BdcExceptionState"/>
  <xs:complexType name="AccessDeniedExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension base="q1:BdcExceptionState">
        <xs:sequence>
          <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true"
type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

```

    <xs:element name="AccessDeniedExceptionState" nillable="true"
type="q1:AccessDeniedExceptionState"/>

    <xs:complexType name="AccessDeniedException">
      <xs:complexContent mixed="false">
        <xs:extension base="q1:BdcException"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="AccessDeniedException" nillable="true" type="q1:AccessDeniedException"/>
    <xs:complexType name="BdcException">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System"
base="q2:Exception"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="BdcException" nillable="true" type="q1:BdcException"/>
    <xs:simpleType name="BdcRights">
      <xs:list>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="None"/>
            <xs:enumeration value="Execute"/>
            <xs:enumeration value="Edit"/>
            <xs:enumeration value="SetPermissions"/>
            <xs:enumeration value="UseInBusinessDataInLists"/>
            <xs:enumeration value="SelectableInClients"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:list>
    </xs:simpleType>
    <xs:element name="BdcRights" nillable="true" type="q1:BdcRights"/>
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  </xs:schema>

```

7.2 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel.Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="TypeDescriptorFlags">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None"/>
          <xs:enumeration value="CreatorField"/>
          <xs:enumeration value="UpdaterField"/>
          <xs:enumeration value="PreUpdaterField"/>
          <xs:enumeration value="IsCollection"/>
          <xs:enumeration value="ReadOnly"/>
          <xs:enumeration value="Significant"/>
          <xs:enumeration value="IsSortInput"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
  <xs:simpleType name="DirectionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="In"/>
      <xs:enumeration value="Out"/>
      <xs:enumeration value="InOut"/>
    </xs:restriction>
  </xs:simpleType>

```

```

        <xs:enumeration value="Return"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
<xs:simpleType name="FilterType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Comparison"/>
        <xs:enumeration value="LastId"/>
        <xs:enumeration value="Limit"/>
        <xs:enumeration value="PageNumber"/>
        <xs:enumeration value="Password"/>
        <xs:enumeration value="SsoTicket"/>
        <xs:enumeration value="Timestamp"/>
        <xs:enumeration value="UserContext"/>
        <xs:enumeration value="Username"/>
        <xs:enumeration value="UserProfile"/>
        <xs:enumeration value="Wildcard"/>
        <xs:enumeration value="Input"/>
        <xs:enumeration value="Output"/>
        <xs:enumeration value="InputOutput"/>
        <xs:enumeration value="Batching"/>
        <xs:enumeration value="BatchingTermination"/>
        <xs:enumeration value="UserCulture"/>
        <xs:enumeration value="ActivityId"/>
        <xs:enumeration value="Sorting"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
<xs:simpleType name="MethodInstanceType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Finder"/>
        <xs:enumeration value="SpecificFinder"/>
        <xs:enumeration value="GenericInvoker"/>
        <xs:enumeration value="IdEnumerator"/>
        <xs:enumeration value="Scalar"/>
        <xs:enumeration value="AccessChecker"/>
        <xs:enumeration value="Creator"/>
        <xs:enumeration value="Updater"/>
        <xs:enumeration value="Deleter"/>
        <xs:enumeration value="ChangedIdEnumerator"/>
        <xs:enumeration value="DeletedIdEnumerator"/>
        <xs:enumeration value="AssociationNavigator"/>
        <xs:enumeration value="Associator"/>
        <xs:enumeration value="Disassociator"/>
        <xs:enumeration value="StreamAccessor"/>
        <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
        <xs:enumeration value="BulkSpecificFinder"/>
        <xs:enumeration value="BulkAssociatedIdEnumerator"/>
        <xs:enumeration value="BulkAssociationNavigator"/>
        <xs:enumeration value="BulkIdEnumerator"/>
        <xs:enumeration value="EventSubscriber"/>
        <xs:enumeration value="EventUnsubscriber"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
<xs:simpleType name="SystemType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Database"/>
        <xs:enumeration value="WebService"/>
        <xs:enumeration value="Custom"/>
        <xs:enumeration value="Wcf"/>
        <xs:enumeration value="DotNetAssembly"/>
        <xs:enumeration value="OData"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
</xs:schema>

```

7.3 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="CacheUsage">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Default"/>
      <xs:enumeration value="Online"/>
      <xs:enumeration value="Cached"/>
      <xs:enumeration value="Offline"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CacheUsage" nillable="true" type="tns2:CacheUsage"/>
  <xs:complexType name="ProxyGenerationResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ProxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
</xs:schema>
```

7.4 [Microsoft.BusinessData.SharePoint](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SharePoint) Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q4="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified"
targetNamespace="Microsoft.BusinessData.SharePoint"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="MetadataException">
    <xs:sequence>
      <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
      <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="MetadataException" nillable="true" type="q4:MetadataException"/>
</xs:schema>
```

7.5 <http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants> Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllLobSystemsInModel"/>
      <xs:enumeration value="OwnedLobSystemsInModel"/>
    </xs:restriction>
  </xs:simpleType>
```

```

        <xs:enumeration value="SharedLobSystemsInModel"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
type="tns3:LobSystemConstants.LobSystemsInModelQuery"/>
<xs:simpleType name="EntityConstants.EntitiesInModelQuery">
    <xs:restriction base="xs:string">
        <xs:enumeration value="AllEntitiesInModel"/>
        <xs:enumeration value="OwnedEntitiesInModel"/>
        <xs:enumeration value="SharedEntitiesInModel"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true"
type="tns3:EntityConstants.EntitiesInModelQuery"/>
</xs:schema>

```

7.6 Microsoft.SharePoint.BusinessData Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q5="Microsoft.SharePoint.BusinessData"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="InvalidMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.SharePoint" base="q4:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="InvalidFieldName" nillable="true"
type="xs:string"/>
                    <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
                    <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="InvalidMetadataObjectExceptionState" nillable="true"
type="q5:InvalidMetadataObjectExceptionState"/>
    <xs:complexType name="DuplicateMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.SharePoint" base="q4:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
                    <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="DuplicateMetadataObjectExceptionState" nillable="true"
type="q5:DuplicateMetadataObjectExceptionState"/>
    <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.SharePoint" base="q4:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="Limit" type="xs:int"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true"
type="q5:ExceededMetadataObjectLimitExceptionState"/>
    <xs:complexType name="ConcurrentModificationExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.SharePoint" base="q4:MetadataException">
                <xs:sequence>

```

```

        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="ConcurrentModificationExceptionState" nillable="true"
type="q5:ConcurrentModificationExceptionState"/>
<xs:complexType name="InvalidMetadataPropertyExceptionState">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
            <xs:sequence>
                <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="InvalidMetadataPropertyExceptionState" nillable="true"
type="q5:InvalidMetadataPropertyExceptionState"/>
<xs:complexType name="MetadataObjectNotFoundExceptionState">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
            <xs:sequence>
                <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="MetadataObjectNotFoundExceptionState" nillable="true"
type="q5:MetadataObjectNotFoundExceptionState"/>
<xs:simpleType name="PackageContents">
    <xs:list>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="None"/>
                <xs:enumeration value="Model"/>
                <xs:enumeration value="LocalizedNames"/>
                <xs:enumeration value="Permissions"/>
                <xs:enumeration value="Properties"/>
                <xs:enumeration value="InlineProxies"/>
                <xs:enumeration value="All"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:list>
</xs:simpleType>
<xs:element name="PackageContents" nillable="true" type="q5:PackageContents"/>
<xs:complexType name="MetadataObjectStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
        <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="MetadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
<xs:complexType name="ActionStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
                <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
                <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
                <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ActionStruct" nillable="true" type="q5:ActionStruct"/>
  <xs:complexType name="TypeDescriptorStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="associationReferenceEntityNamespace"
nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
          <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
          <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
          <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
          <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
          <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
          <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
  <xs:complexType name="IdentifierStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
          <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="IdentifierStruct" nillable="true" type="q5:IdentifierStruct"/>
  <xs:complexType name="LobSystemInstanceStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="LobSystemInstanceStruct" nillable="true"
type="q5:LobSystemInstanceStruct"/>
  <xs:complexType name="ActionParameterStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ActionParameterStruct" nillable="true"
type="q5:ActionParameterStruct"/>

```

```

        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ActionParameterStruct" nillable="true" type="q5:ActionParameterStruct"/>
<xs:complexType name="AdministrationMetadataCatalogStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AdministrationMetadataCatalogStruct" nillable="true"
type="q5:AdministrationMetadataCatalogStruct"/>
<xs:complexType name="ParameterStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
                <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
                <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ParameterStruct" nillable="true" type="q5:ParameterStruct"/>
<xs:complexType name="AssociationGroupStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationGroupStruct" nillable="true"
type="q5:AssociationGroupStruct"/>
<xs:complexType name="DataClassStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="active" type="xs:boolean"/>
                <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
                <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2:Version"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="DataClassStruct" nillable="true" type="q5:DataClassStruct"/>
<xs:complexType name="EntityStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:DataClassStruct">
            <xs:sequence>
                <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="EntityStruct" nillable="true" type="q5:EntityStruct"/>
<xs:complexType name="FilterDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
                <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="filterType" type="tns1:FilterType"/>
                <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="FilterDescriptorStruct" nillable="true"
type="q5:FilterDescriptorStruct"/>
<xs:complexType name="AssociationStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MethodInstanceStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationStruct" nillable="true" type="q5:AssociationStruct"/>
<xs:complexType name="MethodInstanceStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
                <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
                <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
                <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="MethodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
<xs:complexType name="LobSystemStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="systemType" type="tns1:SystemType"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="LobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
<xs:complexType name="MethodStruct">
    <xs:complexContent mixed="false">

```

```

<xs:extension base="q5:MetadataObjectStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
    <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="MethodStruct" nillable="true" type="q5:MethodStruct"/>
<xs:complexType name="ModelStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ModelStruct" nillable="true" type="q5:ModelStruct"/>
<xs:complexType name="PackageFormatExceptionState">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfstring"/>
    <xs:element xmlns:q4="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="q4:MetadataException"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="PackageFormatExceptionState" nillable="true"
type="q5:PackageFormatExceptionState"/>
<xs:complexType name="ArrayOfLocalizedNameStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="q5:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLocalizedNameStruct" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
<xs:complexType name="LocalizedNameStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="vlu" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="LocalizedNameStruct" nillable="true" type="q5:LocalizedNameStruct"/>
<xs:complexType name="ArrayOfPropertyStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="q5:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfPropertyStruct" nillable="true" type="q5:ArrayOfPropertyStruct"/>
<xs:complexType name="PropertyStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="PropertyStruct" nillable="true" type="q5:PropertyStruct"/>
<xs:complexType name="ComplexValueStruct">
  <xs:sequence>

```

```

        <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
        <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true"
type="xs:anyType"/>
        <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ComplexValueStruct" nillable="true" type="q5:ComplexValueStruct"/>
<xs:complexType name="DefaultValueStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:ComplexValueStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="DefaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
<xs:complexType name="ArrayOfAccessControlEntryStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="q5:AccessControlEntryStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAccessControlEntryStruct" nillable="true"
type="q5:ArrayOfAccessControlEntryStruct"/>
<xs:complexType name="AccessControlEntryStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="principalDisplayName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="AccessControlEntryStruct" nillable="true"
type="q5:AccessControlEntryStruct"/>
<xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="q5:CacheInvalidationRecordStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true"
type="q5:ArrayOfCacheInvalidationRecordStruct"/>
<xs:complexType name="CacheInvalidationRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
        <xs:element minOccurs="0" name="counter" type="xs:int"/>
        <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
        <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="CacheInvalidationRecordStruct" nillable="true"
type="q5:CacheInvalidationRecordStruct"/>
<xs:complexType name="ArrayOfModelStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="q5:ModelStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfModelStruct" nillable="true" type="q5:ArrayOfModelStruct"/>
<xs:complexType name="ArrayOfLobSystemStruct">

```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfLobSystemStruct" nillable="true"
type="q5:ArrayOfLobSystemStruct"/>
  <xs:complexType name="ArrayOfLobSystemInstanceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="q5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
  <xs:complexType name="ArrayOfDataClassStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDataClassStruct" nillable="true"
type="q5:ArrayOfDataClassStruct"/>
  <xs:complexType name="ArrayOfEntityStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfEntityStruct" nillable="true" type="q5:ArrayOfEntityStruct"/>
  <xs:complexType name="ArrayOfActivationErrorRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="q5:ActivationErrorRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true"
type="q5:ArrayOfActivationErrorRecordStruct"/>
  <xs:complexType name="ActivationErrorRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingMethodName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
      <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>

```

```

        <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true"
type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ActivationErrorRecordStruct" nillable="true"
type="q5:ActivationErrorRecordStruct"/>
<xs:complexType name="ArrayOfActionStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="q5:ActionStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionStruct" nillable="true" type="q5:ArrayOfActionStruct"/>
<xs:complexType name="ArrayOfActionParameterStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="q5:ActionParameterStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionParameterStruct" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
<xs:complexType name="ArrayOfIdentifierStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="q5:IdentifierStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfIdentifierStruct" nillable="true"
type="q5:ArrayOfIdentifierStruct"/>
<xs:complexType name="ArrayOfMethodStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="q5:MethodStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMethodStruct" nillable="true" type="q5:ArrayOfMethodStruct"/>
<xs:complexType name="ArrayOfFilterDescriptorStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="q5:FilterDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfFilterDescriptorStruct" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
<xs:complexType name="ArrayOfMethodInstanceStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMethodInstanceStruct" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
<xs:complexType name="ArrayOfParameterStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="q5:ParameterStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfParameterStruct" nillable="true"
type="q5:ArrayOfParameterStruct"/>
<xs:complexType name="ArrayOfTypeDescriptorStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="q5:TypeDescriptorStruct"/>

```

```

    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
  <xs:complexType name="ArrayOfDefaultValueStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct"
nillable="true" type="q5:DefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDefaultValueStruct" nillable="true"
type="q5:ArrayOfDefaultValueStruct"/>
  <xs:complexType name="ArrayOfAssociationStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct"
nillable="true" type="q5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationStruct" nillable="true"
type="q5:ArrayOfAssociationStruct"/>
  <xs:complexType name="ArrayOfAssociationMemberStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="q5:AssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationMemberStruct" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
  <xs:complexType name="AssociationMemberStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="AssociationMemberStruct" nillable="true"
type="q5:AssociationMemberStruct"/>
  <xs:complexType name="ArrayOfAssociationGroupStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="q5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationGroupStruct" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
  <xs:complexType name="ArrayOfAssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationReferenceStruct" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
  <xs:complexType name="AssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="associationName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>

```

```

    <xs:element name="AssociationReferenceStruct" nillable="true"
type="q5:AssociationReferenceStruct"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
</xs:schema>

```

7.7 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="q9:ArrayOfguid"/>
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="q9:ArrayOfstring"/>
  <xs:complexType name="ArrayOfunsignedInt">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedInt" nillable="true" type="q9:ArrayOfunsignedInt"/>
  <xs:complexType name="ArrayOfbase64Binary">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfbase64Binary" nillable="true" type="q9:ArrayOfbase64Binary"/>
</xs:schema>

```

7.8 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>

```

```

<xs:element name="float" nillable="true" type="xs:float"/>
<xs:element name="int" nillable="true" type="xs:int"/>
<xs:element name="long" nillable="true" type="xs:long"/>
<xs:element name="QName" nillable="true" type="xs:QName"/>
<xs:element name="short" nillable="true" type="xs:short"/>
<xs:element name="string" nillable="true" type="xs:string"/>
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
<xs:element name="char" nillable="true" type="ser:char"/>
<xs:simpleType name="char">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
<xs:element name="duration" nillable="true" type="ser:duration"/>
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="ser:guid"/>
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName"/>
<xs:attribute name="Id" type="xs:ID"/>
<xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>

```

7.9 [http://schemas.datacontract.org/2004/07/System Schema](http://schemas.datacontract.org/2004/07/System.Schema)

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q2="http://schemas.datacontract.org/2004/07/System"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="InvalidOperationException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:SystemException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="InvalidOperationException" nillable="true"
  type="q2:InvalidOperationException"/>
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:Exception"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="q2:SystemException"/>
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
  processContents="skip"/>
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType"/>
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="q2:Exception"/>
  <xs:complexType name="Version">
    <xs:sequence>
      <xs:element name="_Build" type="xs:int"/>
    </xs: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>
<xs:element name="Version" nillable="true" type="q2:Version"/>
<xs:complexType name="ArgumentOutOfRangeException">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentOutOfRangeException" nillable="true"
type="q2:ArgumentOutOfRangeException"/>
<xs:complexType name="ArgumentException">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:SystemException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentException" nillable="true" type="q2:ArgumentException"/>
<xs:complexType name="ArgumentNullException">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentNullException" nillable="true" type="q2:ArgumentNullException"/>
</xs:schema>

```

7.10 <http://www.microsoft.com/Office/2009/BusinessDataCatalog> Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetServiceApplicationId">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceApplicationIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIds">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIdsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReadSlicedXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ReadSlicedXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfString"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="HaveRights">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q1:BdcRights"/>
            <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="HaveRightsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNames">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="q5:ArrayOfLocalizedNameStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfPropertyStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="q5:ArrayOfPropertyStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedName">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>

```

```

        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedNameResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNames">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNamesResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedName">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedNameResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="SaveProperty">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="q5:PropertyStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SavePropertyResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="ClearProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ClearPropertiesResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveProperty">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="RemovePropertyResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetAccessControlEntries">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAccessControlEntriesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAccessControlEntriesResult" nillable="true"
type="q5:ArrayOfAccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetAccessControlEntries">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="q5:ArrayOfAccessControlEntryStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetAccessControlEntriesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectCreateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Update">
  <xs:complexType>

```

```

    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Delete">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXmlResponse">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildren">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSetting">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSettingResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSetting">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSettingResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSince">
    <xs:complexType>

```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSinceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetCacheInvalidationRecordsSinceResult" nillable="true"
type="q5:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ImportPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ImportPackageResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetImportProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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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="GetImportProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="ExportPackageResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="q5:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByName">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByNameResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="q5:ArrayOfModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelByName">
    <xs:complexType>

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        <xs:sequence>
          <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetModelByNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="q5:ModelStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetModelsByEntityId">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetModelsByEntityIdResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="q5:ArrayOfModelStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddEntityToModel">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddEntityToModelResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFromModel">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFromModelResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteNoCascade">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>

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</xs:element>
<xs:element name="DeleteNoCascadeResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="ModelReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ModelReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemAllAssembliesBytes">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemAllAssembliesBytesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q9:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemDataByLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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```

</xs:element>
<xs:element name="GetLobSystemDataByLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetLobSystemDataByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="proxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetLobSystemDataByLobSystemIdResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="queryMode"
type="tns3:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeName">

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<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSystemUtilityTypeNameForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GenerateProxyAssemblyForLobSystem">
  <xs:complexType>

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        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GenerateProxyAssemblyForLobSystemResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteProxyAssemblyForLobSystem">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteProxyAssemblyForLobSystemResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstancesForLobSystem">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstancesForLobSystemResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstanceById">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstanceByIdResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="q5:LobSystemInstanceStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetDataClassesForSystem">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>

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```

</xs:element>
<xs:element name="GetDataClassesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="q5:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="mode"
type="tns3:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>

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</xs:element>
<xs:element name="GetEntityWithNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersion">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2:Version"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRoleResponse">

```

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    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultActionForEntity">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultActionForEntityResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityNameAndNamespacesForAssociationAndRole">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="q5:EntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityCreate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:EntityStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>

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        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="EntityCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Activate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ActivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Deactivate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeactivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
            <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="q5:ArrayOfActivationErrorRecordStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionById">
    <xs:complexType>

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    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="q5:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="q5:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="q5:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForAction">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForActionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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<xs:element name="GetIdentifierById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="q5:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="q5:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="q5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="q5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="IsMethodInstantiated">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiatedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="q5:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForDataClass">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForDataClassResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForMethod">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForMethodResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="CheckPathInMethodInstances">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="dottedPath" nillable="true" type="xs:string"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="type" type="tns1:MethodInstanceType"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="CheckPathInMethodInstancesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetParameterById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

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```

<xs:element name="GetParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="q5:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstance">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameter">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>

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        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstance">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="level" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>

```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="q5: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:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="q5: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:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="q5: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:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfDefaultValueStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetDefaultValuesForTypeDescriptor">
      <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="defaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteDefaultValueForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorMergeXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="q5:AssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="q5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForDataClass">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForDataClassResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>

```

```

        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="q5:AssociationGroupStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntityResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroupResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="q5:AssociationGroupStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroupResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="q5:AssociationGroupStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteAssociationReferenceFromAssociationGroup">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetXmlSchemaForView">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetXmlSchemaForViewResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administ
ration.Client.Constants"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
</xs:schema>

```

8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs.

- Microsoft Office 2010 suites
- Microsoft SharePoint Foundation 2010
- Microsoft Office 2013
- Microsoft SharePoint Foundation 2013
- Microsoft Office 2016
- Microsoft SharePoint Server 2016

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

<1> [Section 2.2.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that **Business Logic Modules** conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and are understood by the Microsoft .NET Framework.

<2> [Section 2.2.4.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, only the restriction that the index be greater than or equal to zero is enforced.

<3> [Section 2.2.4.21](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 always set the values to zero on return.

<4> [Section 2.2.4.22](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this **GUID** can be non-empty.

<5> [Section 2.2.4.31](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this element is ignored, and the **EntityCreate** operation always sets the **description** element to NULL in the response.

<6> [Section 2.2.4.41](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this can be other values.

<7> [Section 2.2.4.51](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that Business Logic Modules conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and are understood by the .NET Framework.

<8> [Section 2.2.4.53](#): The culture names used by SharePoint Foundation 2010 and SharePoint Foundation 2013 are as specified in [\[MSDN-SharePointSDK\]](#).

<9> [Section 2.2.4.53](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require this data type to conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and to be understood by the .NET Framework.

<10> [Section 2.2.4.53](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that the data type to conform to the Common Language Infrastructure (CLI) as specified in [ECMA-335] and is understood by the .NET Framework.

<11> [Section 2.2.4.53](#): The SharePoint Foundation 2010 and SharePoint Foundation 2013 modules that perform the mapping of value of the **typeName** element to data types require the value of the **typeName** element to be in the following format.

```
Value = TypeName *1(%x2C BusinessLogicModule)
BusinessLogicModule = FullAssemblyName / LobSystemName
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#), section [2.2.1.3](#).

TypeName: The name of the type that conforms to the Common Language Infrastructure (CLI) as specified in [ECMA-335] and is understood by the .NET Framework. The format is as specified in [MS-NRTP] section [2.2.1.2](#).

LobSystemName: The name of the **LobSystem** that contains the **TypeDescriptor**.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 and SharePoint Foundation 2013 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the LobSystem that contains the TypeDescriptor. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 and SharePoint Foundation 2013 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from zero through 65535.
System.UInt32	A number in the range from zero through 4,294,967,295.
System.UInt64	A number in the range from zero through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 0001 through 11:59:59 PM, December 31, 9999, with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds.

Value	Description
System.Single	A single-precision number in the range from – 3.402823e38 through 3.402823e38.
System.Double	A double-precision number in the range from – 1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN.
System.Decimal	A number in the range from – 79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from zero through 255.
System.SByte	A number in the range from –128 through 127.
System.Guid	A GUID.
System.Boolean	A bit.
System.Uri	A URL .

<12> [Section 2.2.5.9](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<13> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013 implementations the protocol client specifies the last known values for these elements. The protocol server uses the specified values to construct error messages and other informational messages.

<14> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if The Entity is already Active, Object version is incremented by 2.

<15> [Section 3.1.4](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<16> [Section 3.1.4](#): The Business Logic Module conforms to [ECMA-335] specification and is understood by the .NET Framework.

<17> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

<18> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation always returns zero TypeDescriptors.

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<92> [Section 3.1.4.82.2.2](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require the identifier to be in the following format as expressed in ABNF as specified in [\[RFC5234\]](#):

```
Identifier = TypeName *1(%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

where LibraryIdentifier, VersionProperty, PublicKeyTokenProperty, and CultureProperty are as specified in [MS-NRTP] section 2.2.1.3.

TypeName: The name of the type that conforms to the [ECMA-335] specification and can be understood by the .NET Framework. The format is as specified in [MS-NRTP], Section 2.2.1.2. The specified type implements operations that are described in [MSDN-SharePointSDK].

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<98> [Section 3.1.4.92.2.2](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation always returns false.

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<100> [Section 3.1.4.93.2.2](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if the **MetadataObject** specified in the request is an Entity, this operation will not set **description** while returning created **MetadataObject**.

<101> [Section 3.1.4.94](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** complex type (section 2.2.4.25) in the case where **MetadataObject** is **LobSystem**.

<102> [Section 3.1.4.94](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 could return a fault containing the **BdcExceptionState** (section 2.2.4.25) instead of **PackageFormatExceptionState** (section [2.2.4.48](#)).

<103> [Section 3.1.4.95](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

<104> [Section 3.1.4.96](#): In the case when the **packageContents** element is specified as **Model**, **LocalizedNames** or **None**, SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault.

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<110> [Section 3.1.4.110](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in cases where **xml** does not contain either the IdentifierName, IdentifierEntityName and IdentifierEntityNamespace, or the AssociationName, AssociationEntityName and AssociationEntityNamespace.

<111> [Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

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<123> [Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 always return a fault containing the **BdcExceptionState** complex type (section 2.2.4.25).

<124> [Section 3.1.4.111](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation does not set the **IsDefault** attribute of a **MethodInstance** with the same value for **MethodInstanceType** within the containing **DataClass** to 1.

<125> [Section 3.1.4.111.2.1](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidMetadataObjectExceptionState** complex type (section 2.2.4.38) in cases where the specified **MetadataObject** is the **FilterDescriptor** of type **TimeStampFilter**.

<126> [Section 3.1.4.112](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Description	Revision class
2.2.4.21 AssociationGroupStruct	Added restrictions on associationEntityNames and associationEntityNamespaces if the Entity is active.	Major
2.2.4.34 FilterDescriptorStruct	Updated the namespace of FilterType in the description of filterType to be consistent with the namespace in the schema.	Minor
3.1.4.4.3.2 ActivationErrorRecordStruct	Completed the description for Minor, Build and Revise in the containingEntityVersion element.	Major

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