**[MS-BDCRAWPS]:**

**Business Data Connectivity Remote Administration Web Service Protocol**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/13/2009 | 0.1 | Major | Initial Availability |
| 8/28/2009 | 0.2 | Editorial | Revised and edited the technical content |
| 11/6/2009 | 0.3 | Editorial | Revised and edited the technical content |
| 2/19/2010 | 1.0 | Major | Updated and revised the technical content |
| 3/31/2010 | 1.01 | Editorial | Revised and edited the technical content |
| 4/30/2010 | 1.02 | Editorial | Revised and edited the technical content |
| 6/7/2010 | 1.03 | Editorial | Revised and edited the technical content |
| 6/29/2010 | 1.04 | Editorial | Changed language and formatting in the technical content. |
| 7/23/2010 | 1.05 | Major | Significantly changed the technical content. |
| 9/27/2010 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.06 | Major | Significantly changed the technical content. |
| 12/17/2010 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/18/2011 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/10/2011 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/20/2012 | 2.0 | Major | Significantly changed the technical content. |
| 4/11/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/12/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/11/2013 | 2.1 | Minor | Clarified the meaning of the technical content. |
| 7/30/2013 | 2.2 | Minor | Clarified the meaning of the technical content. |
| 11/18/2013 | 2.3 | Minor | Clarified the meaning of the technical content. |
| 2/10/2014 | 2.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/30/2014 | 2.4 | Minor | Clarified the meaning of the technical content. |
| 7/31/2014 | 2.5 | Minor | Clarified the meaning of the technical content. |
| 10/30/2014 | 2.5 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/16/2015 | 3.0 | Major | Significantly changed the technical content. |
| 2/26/2016 | 4.0 | Major | Significantly changed the technical content. |
| 7/15/2016 | 4.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/14/2016 | 4.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/20/2017 | 5.0 | Major | Significantly changed the technical content. |
| 7/24/2018 | 6.0 | Major | Significantly changed the technical content. |
| 10/1/2018 | 7.0 | Major | Significantly changed the technical content. |
| 12/11/2018 | 7.1 | Minor | Clarified the meaning of the technical content. |
| 2/13/2019 | 7.2 | Minor | Clarified the meaning of the technical content. |
| 6/18/2019 | 7.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/22/2021 | 8.0 | Major | Significantly changed the technical content. |
| 7/20/2021 | 9.0 | Major | Significantly changed the technical content. |

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# 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.

## Glossary

This document uses the following terms:

**access control entry (ACE)**: An entry in an [**access control list (ACL)**](#gt_9f92aa05-dd0a-45f2-88d6-89f1fb654395) 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)**](#gt_b581857f-39aa-4979-876b-daba67a40f15) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve the permissions that the calling [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) has for each of a collection of EntityInstances identified by the specified EntityInstanceIds.

**action**: The smallest unit of work in a workflow system. An action can contain one or more tasks that define work that actors need to do. Actions are deployed and registered in the workflow system to be activated by protocol client users.

**ActionParameter**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that defines how to parameterize the URL of an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) with specific data about an EntityInstance. ActionParameters are contained by Actions.

**ActivityTrackingFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value specifies a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) for the current operation.

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

**association**: A named independent relationship between two entity type definitions. Associations in the Entity Data Model (EDM) are first-class concepts and are always bidirectional. Indeed, the first-class nature of associations helps distinguish the EDM from the relational model. Every association includes exactly two association ends.

**AssociationGroup**: A [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that provides a logical grouping of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). All of the [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) that are identified by AssociationReferences in the group operate on a single physical mapping of source [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) to destination EntityInstances in a line-of-business (LOB) system. All AssociationReferences in the group have the same AssociationReference sources and destinations, and collectively define the source and destination [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) of the AssociationGroup.

**AssociationNavigator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve destination [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) that are associated with a single specified EntityInstance for each of the sources of the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

**AssociationReference**: An entry in an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that refers to an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). The sources of the AssociationReference are the sources of the referenced Association, and the destination of the AssociationReference is the destination of the referenced Association. The opposite is true if the AssociationReference is defined to be a reverse reference, for Associations with one source Entity.

**Associator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to associate the specified, destination EntityInstance with a single specified EntityInstance for each of the sources of the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

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

**base64 encoding**: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [[RFC4648]](https://go.microsoft.com/fwlink/?LinkId=90487).

**BatchingPositionFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value represents the current position of a batch, if the LOB system can return data in batches. When requesting a new batch, the filter can be populated with the position of the last batch.

**BatchingTerminationFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value can be used to identify the last batch, if the LOB system can return data in batches.

**BinarySecurityDescriptorAccessor**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve a sequence of bytes from a line-of-business (LOB) system. The system-specific byte sequence describes a set of [**security principals (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) and the associated permissions that each [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) has for the EntityInstance identified by a specified EntityInstanceId.

**BulkAssociatedIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve pairs of EntityInstanceIds of source EntityInstances and EntityInstanceIds of corresponding destination EntityInstances for a specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). The specified EntityInstances are either a source or a destination in the specified Association.

**BulkAssociationNavigator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve destination EntityInstances that are associated with multiple specified EntityInstances for each of the sources of the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

**BulkIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve a set of EntityInstanceIds and a small subset of important Fields of the EntityInstances that are identified by the specified set of EntityInstanceIds.

**BulkSpecificFinder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a set of specific EntityInstances of an Entity, given a set of corresponding EntityInstanceIds.

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

**ChangedIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve EntityInstanceIds of EntityInstances that were modified in a line-of-business (LOB) system after a specified time.

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

**complex type**: An element that can contain other elements or attributes and appears as <complexType> in an XML document. See also [**simple type**](#gt_c379fc5a-ed5c-4bce-b383-8d25539f225a).

**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**: The user who creates protected content.

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

**DefaultValue**: A value that is associated with a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55), in the context of a MethodInstance, and is used to instantiate Parameter values when calling native APIs in a line-of-business (LOB) system. The type of the value is consistent with the data type represented by the TypeDescriptor.

**DeletedIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve EntityInstanceIds of EntityInstances that were deleted from a line-of-business (LOB) system after the specified time.

**Deleter**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to delete an EntityInstance with a specified EntityInstanceId.

**Disassociator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to remove an association between a specified destination EntityInstance and a single specified EntityInstance for each of the sources of a specified Association.

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

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

**entity**: An instance of an EntityType element that has a unique identity and an independent existence. An entity is an operational unit of consistency.

**EntityInstance**: A set of [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values that have a unique identity that represents a specific instance of an Entity, and are stored in a line-of-business (LOB) system.

**field**: The data elements that constitute an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in a line-of-business (LOB) system.

**FilterDescriptor**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that describes a normalized way of gathering input from users. A FilterDescriptor is defined by its type and the Method that contains it.

**Finder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a collection of zero or more EntityInstances of a specific Entity. Finder input is defined by the FilterDescriptors that are contained in the Method that contains the Finder.

**GenericInvoker**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to perform a specific task in a line-of-business (LOB) system. GenericInvoker input and output is specific to the Method.

**globally unique identifier (GUID)**: A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [[RFC4122]](https://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](https://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

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

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

**identifier**: A string value that is used to uniquely identify a component of the CSDL and that is of type SimpleIdentifier.

**IdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return the [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values that represent the identity of EntityInstances of a specific Entity. IdEnumerator input is defined by the FilterDescriptors that are contained in the Method that contains the IdEnumerator.

**InputFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used while calling an operation for a line-of-business (LOB) system. An LOB system can use the value of an InputFilter as additional arguments for the operation.

**InputOutputFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used while calling an operation for a line-of-business (LOB) system. An LOB system can use the value of an InputOutputFilter as additional arguments for the operation, and additional results of an operation that cannot be captured by ReturnTypeDescriptor can be retrieved as a value of the InputOutputFilter.

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

**LastIdFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system in which data is to be returned in chunks. When requesting a new chunk, the filter can be populated with the EntityInstanceId of the last EntityInstance.

**LimitFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value can be interpreted as a limit on the number of EntityInstances that are returned when the Method to which it belongs is called.

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

**LobSystem**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents a specific version of a line-of business (LOB) system. An LOB system can be a database or a web service.

**LobSystemInstance**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents a specific deployed instance of a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286), as represented by a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). LobSystemInstances are contained by LobSystems. LobSystemInstance Properties describe how to connect to an instance of the LobSystem that contains them by providing information such as the server name, connection string, and authentication mode.

**localized name**: The descriptive name of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) for a specific locale.

**metadata store**: A database that is stored on a back-end database server and contains all stored procedures and storage for the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) types.

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

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

**MetadataObject**: An abstract data structure that consists of a set of attributes that represent a LobSystem, LobSystemInstance, DataClass, Entity, Method, MethodInstance, Parameter, TypeDescriptor, Identifier, FilterDescriptor, [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b), [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f), or [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

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

**method**: A component-defined operation that component instances are able to execute at the request of external entities.

**MethodInstance**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that associates a normalized or stereotypical semantic with a Method that represents a native API in a line-of-business (LOB) system. MethodInstances identify which part of the data that is returned by a Method is relevant for the semantic by defining a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08). MethodInstances are contained by Methods.

**model**: The highest level of data organization in Master Data Services. A model contains objects and entities.

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

**OutputFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used while calling an operation for a line-of-business (LOB) system. Additional results of an operation that cannot be captured by a ReturnTypeDescriptor can be retrieved as a value of an OutputFilter.

**PageNumberFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value can be the sequence number of the batch to return, if the LOB system can return data in batches.

**Parameter**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents the formal parameters of a piece of business logic in a line-of-business (LOB) system. Parameters have a single root TypeDescriptor that defines the structure of the Parameter. They also have a Direction and a TypeReflector. Parameters are contained by Methods.

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

**PasswordCredentialFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system and can hold the password of an account that is defined in that system. When it is used in conjunction with a UsernameCredentialFilter, an LOB system can use the PasswordCredentialFilter value to restrict access to data for an account.

**property**: A data field within a Common Information Model (CIM) class definition. This consists of a simple name, a type, and a value.

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

**root 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]](https://go.microsoft.com/fwlink/?LinkId=90598).

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

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

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

**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**](#gt_ff9674b8-e5a4-4817-8b66-5cdf367f9fb2).

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [[SOAP1.2-1/2003]](https://go.microsoft.com/fwlink/?LinkId=90521).

**SOAP action**: The HTTP request header field used to indicate the intent of the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) request, using a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) value. See [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 6.1.1 for more information.

**SOAP body**: A container for the payload data being delivered by a SOAP message to its recipient. See [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

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

**SpecificFinder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a specific EntityInstance of a specific Entity given its EntityInstanceId. SpecificFinder input is defined and ordered by the Identifiers that are associated with the Entity that is associated with the Method that is associated with the SpecificFinder.

**SsoTicketFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used in conjunction with a single sign-on (SSO) system to transmit an SSO ticket to a line-of-business (LOB) system.

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

**TimeStampFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value can be a timestamp that specifies the earliest update to return, if the LOB system can return data that was updated after a specified time.

**TypeDescriptor**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that describes a subset of the structure of a Parameter of a Method of the native API of a line-of-business (LOB) system. A TypeDescriptor can contain TypeDescriptors to form hierarchies that describe Parameters representing complex types, where the leaf TypeDescriptors describe simple or primitive types. A root TypeDescriptor, together with DefaultValues for leaf TypeDescriptors can be used to instantiate an instance of a Parameter value to send to a LOB system to execute a Method.

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

**Unicode**: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) standard [[UNICODE5.0.0/2007]](https://go.microsoft.com/fwlink/?LinkId=154659) provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

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

**Uniform Resource Locator (URL)**: A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [[RFC1738]](https://go.microsoft.com/fwlink/?LinkId=90287).

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

**UserContextFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value can be set automatically by a protocol client to the identity of the user who is calling the LOB system. This value can then be used by the LOB system to authorize and filter the results that are returned.

**UserCultureFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value specifies the locale that is used by the application initiating the call.

**UsernameCredentialFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system and can hold the user name of an account that is defined in that system. When used in conjunction with PasswordCredentialFilter, the LOB system can use its value to restrict access to data.

**UserProfileFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system and whose value can be obtained by examining the current user's profile. The LOB system can use its value to filter the results that are returned.

**view**: See form view (Microsoft InfoPath), list view (SharePoint Products and Technologies), or [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) (Microsoft Business Connectivity Services).

**web service**: A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

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

**WildcardFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value represents a pattern of regular and wildcard characters that is matched against the value of a particular [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of the set of EntityInstances. The LOB system returns only those EntityInstances whose Field values match the specified pattern.

**WSDL message**: An abstract, typed definition of the data that is communicated during a [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299) [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577). Also, an element that describes the data being exchanged between web service providers and clients.

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

**XML**: The Extensible Markup Language, as described in [[XML1.0]](https://go.microsoft.com/fwlink/?LinkId=90599).

**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**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) 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]](https://go.microsoft.com/fwlink/?LinkId=90602).

**XML namespace prefix**: An abbreviated form of an [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24), as described in [XML].

**XML schema**: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**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**](#gt_bd0ce6f9-c350-4900-827e-951265294067).

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

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

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

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

[MS-BDCMFFS] Microsoft Corporation, "[Business Data Connectivity Model File Format](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a)".

[MS-NRTP] Microsoft Corporation, "[.NET Remoting: Core Protocol](%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec)".

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[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, [http://www.rfc-editor.org/rfc/rfc2616.txt](https://go.microsoft.com/fwlink/?LinkId=90372)

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[SOAP1.2-1/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)", W3C Recommendation, April 2007, [http://www.w3.org/TR/2007/REC-soap12-part1-20070427/](https://go.microsoft.com/fwlink/?LinkId=94664)

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[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, [http://www.w3.org/TR/2009/REC-xml-names-20091208/](https://go.microsoft.com/fwlink/?LinkId=191840)

[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/](https://go.microsoft.com/fwlink/?LinkId=90604)

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/](https://go.microsoft.com/fwlink/?LinkId=90607)

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### Informative References

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

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## Protocol Overview (Synopsis)

Corporations have a variety of data stored in various [**line-of-business (LOB) systems**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). Typically, this data is accessible 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**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968), [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9), and [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). 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**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

Methods can be considered to live within an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2), [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb), and [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). These data structures, collectively called [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), can be grouped into related collections called [**MetadataModels**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol client into a LOB system-specific invocation.

This protocol enables a client to create, read, update, and delete MetadataObjects in a [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). 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.

## Relationship to Other Protocols

This protocol uses the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) message protocol for formatting request and response messages, as described in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520). It transmits those messages by using [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) or Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383)..

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

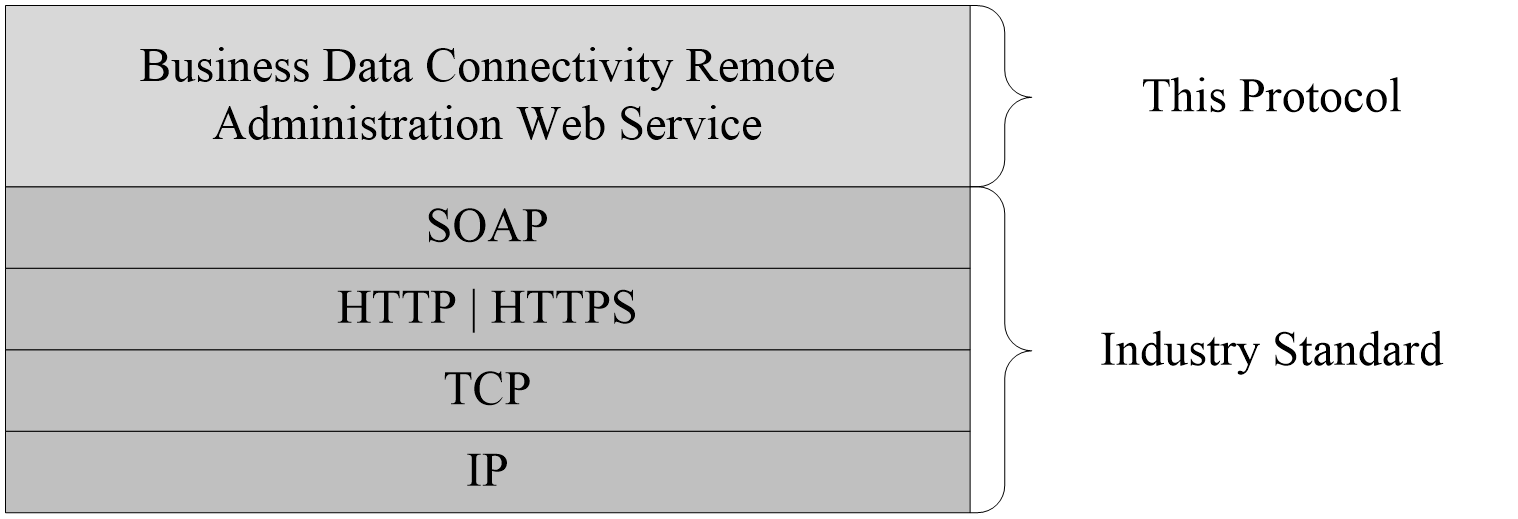


Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) [**URIs**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) 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.

## 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.

## 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)**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) messages, as described in section 2.1.
* **Protocol Versions**: This protocol is not versioned.

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

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

## Transport

Protocol servers MUST support SOAP 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]](https://go.microsoft.com/fwlink/?LinkId=90520), section 4. Protocol server faults MUST be returned using HTTP Status Codes as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372), section 10, or using [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in [SOAP1.1], section 4.4.

## Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067), as specified in [[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) and [[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609), and [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa), as specified in [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) using the mechanisms specified in [[XMLNS]](https://go.microsoft.com/fwlink/?LinkId=191840). Although this specification associates a specific [**XML namespace prefix**](#gt_b9a20be7-31d9-4dcd-9cb9-ba72302857a2) for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

| Prefix | Namespace URI | Reference |
| --- | --- | --- |
| q1 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure |  |
| q2 | http://schemas.datacontract.org/2004/07/System |  |
| q3 | Microsoft.BusinessData.SharePoint |  |
| q7 | http://schemas.microsoft.com/2003/10/Serialization/Arrays |  |
| q8 | Microsoft.SharePoint.BusinessData |  |
| ser | http://schemas.microsoft.com/2003/10/Serialization/ |  |
| soap | http://schemas.xmlsoap.org/wsdl/soap/ | [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) |
| tns | http://www.microsoft.com/Office/2009/BusinessDataCatalog |  |
| tns1 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel |  |
| tns2 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime |  |
| tns3 | http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants |  |
| tns4 | http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports |  |
| wsaw | http://www.w3.org/2006/05/addressing/wsdl | [[WSA1.0]](https://go.microsoft.com/fwlink/?LinkId=145131) |
| wsdl | http://schemas.xmlsoap.org/wsdl/ | [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577) |
| xs | http://www.w3.org/2001/XMLSchema | [[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607)  [[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) |

### Messages

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

### Elements

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

### Complex Types

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

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

Complex types designated as error complex types and returned as responses by the protocol server MUST be formatted as SOAP Faults, as specified in [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664), 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**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions defined by this specification. XML schema complex type definitions that are specific to a particular operation are described with the operation.

| Complex type | Description |
| --- | --- |
| **AccessControlEntryStruct** | The **AccessControlEntryStruct** complex type contains information about an [**access control entry (ACE)**](#gt_b581857f-39aa-4979-876b-daba67a40f15). |
| **AccessDeniedException** | The **AccessDeniedException** 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section 2.2.4). |
| **AccessDeniedExceptionState** | 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). |
| **ActionParameterStruct** | The **ActionParameterStruct** complex type contains information about an [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). |
| **ActionStruct** | The **ActionStruct** complex type contains information about an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b). |
| **AdministrationMetadataCatalogStruct** | The **AdministrationMetadataCatalogStruct** contains information about a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8). |
| **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**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). |
| **ArrayOfEntityStruct** | The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e). |
| **ArrayOfLobSystemStruct** | The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). |
| **ArrayOfLocalizedNameStruct** | The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423). |
| **ArrayOfMethodInstanceStruct** | The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| **ArrayOfModelStruct** | The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| **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]](https://go.microsoft.com/fwlink/?LinkId=90610). |
| **ArrayOfTypeDescriptorStruct** | The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). |
| **ArrayOfunsignedInt** | The ArrayOfunsignedInt complex type represents a list of xs:unsignedInt elements as specified in [XMLSCHEMA2]. |
| **AssociationGroupStruct** | The **AssociationGroupStruct** complex type contains information about an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). Each Association referenced by the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the AssociationGroup is identified by the values in the same index of the 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). 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**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). |
| **DefaultValueStruct** | The **DefaultValueStruct** complex type contains details of a [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of a TypeDescriptor. |
| **DuplicateMetadataObjectExceptionState** | The **DuplicateMetadataObjectExceptionState** 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). |
| **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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |
| **IdentifierStruct** | The **IdentifierStruct** complex type contains information about an [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2). |
| **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**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |
| **LobSystemStruct** | The **LobSystemStruct** complex type contains information about an LobSystem. |
| **LocalizedNameStruct** | The **LocalizedNameStruct** complex type contains information about a localized name. |
| **MetadataException** | The **MetadataException** 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**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) 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 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**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968). |
| **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]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| **PropertyStruct** | The **PropertyStruct** complex type contains information about a property. |
| **ProxyGenerationResult** | The **ProxyGenerationResult** complex type contains information about [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<1>](#Appendix_A_1" \o "Product behavior note 1). |
| **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. |

#### AccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

**principalBinaryForm:** 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)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409). This element MUST be present. The value of this element MUST be as specified for **Principal** attribute in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.1.

**rights:**  The permissions available to a security principal (2) to perform operations on or by using a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This element MUST be present. The value of this element MUST be sum of values of the corresponding rights in the **BdcRights** (section [3.1.4.88.4.1](#Section_68dbe9038f1442deb1e83374149240cf)) enumeration type.

#### 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="AccessDeniedExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q1:BdcExceptionState">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="SecurableObjectName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**CurrentIdentity:** The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating when the violation of access control occurs. This element MUST be present.

**SecurableObjectName:** The name of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) on which the access control violation occurs. This element MUST be present.

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

#### ActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) that contains this ActionParameter. This element MUST be present. The value of this element MUST be in [1, 0x7ffffffff] 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>](#Appendix_A_2" \o "Product behavior note 2)

#### ActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActionStruct** complex type contains information about an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

1. <xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
9. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that contains the Action. This element MUST be present. The value of this element MUST be in [1, 0x7ffffffff] 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) 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**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) of this Action. This element MUST be present.

#### AdministrationMetadataCatalogStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="AdministrationMetadataCatalogStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence/>
5. </xs:extension>
6. </xs:complexContent>
7. </xs:complexType>

#### 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### ArrayOfAccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfAccessControlEntryStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct" nillable="true" type="q8:AccessControlEntryStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfAssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

1. <xs:complexType name="ArrayOfAssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true" type="q8:AssociationStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfEntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

1. <xs:complexType name="ArrayOfEntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true" type="q8:EntityStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfLobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfLobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfLocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfLocalizedNameStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct" nillable="true" type="q8:LocalizedNameStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfMethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfMethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct" nillable="true" type="q8:MethodInstanceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

1. <xs:complexType name="ArrayOfModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true" type="q8:ModelStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfPropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfPropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true" type="q8:PropertyStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfstring

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

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

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

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

#### ArrayOfTypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfTypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfunsignedInt

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

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

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

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

#### AssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationGroupStruct** complex type contains information about an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). Each [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) referenced by the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the AssociationGroup is identified by the values in the same index of the lists **associationEntityNames**, **associationEntityNamespaces**, **associationNames** and **associationIds**.

1. <xs:complexType name="AssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNames" nillable="true" type="q7:ArrayOfstring"/>
6. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q7:ArrayOfstring"/>
7. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationIds" nillable="true" type="q7:ArrayOfunsignedInt"/>
8. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationNames" nillable="true" type="q7:ArrayOfstring"/>
9. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**associationEntityNames:** A list containing the names of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) 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**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) 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>](#Appendix_A_3" \o "Product behavior note 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.

#### AssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

**\_associationName:** The name of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) referenced by the AssociationReference. This element MUST be present. The name MUST have at least 1, at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

**\_entityName:** The name of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).[<4>](#Appendix_A_4" \o "Product behavior note 4)

#### AssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationStruct** complex type MUST contain information about an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) which the name at the same index of the **sourceEntityNames** element belongs to.

1. <xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MethodInstanceStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="destinationEntityName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true" type="xs:string"/>
8. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNames" nillable="true" type="q7:ArrayOfstring"/>
9. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q7:ArrayOfstring"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) which the Association is referenced by. If the Association is referenced by an AssociationGroup, the value of this element MUST be the MetadataObjectId of the referencing AssociationGroup. Otherwise the value of this element MUST be 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

#### 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a SOAP fault as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

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

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

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

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

#### ComplexValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

**needsTypeReflectionResolution:** Carries protocol client implementation-specific semantics. 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.

#### 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="ConcurrentModificationExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### DataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="DataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="active" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
9. <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q2:Version"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

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

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

#### DefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="DefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:ComplexValueStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**methodInstanceId:** [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with which the DefaultValue is associated. This element MUST be present and the value of this element MUST NOT be NULL.

**methodInstanceName:** The name of the MethodInstance with the specified MetadataObjectId. This element MUST be present. The value of this element MUST have at least 1, at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) 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.

#### 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="DuplicateMetadataObjectExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

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

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

#### EntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **EntityStruct** complex type contains information about an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

1. <xs:complexType name="EntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:DataClassStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
6. <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**cacheUsage:** The **CacheUsage** (section [2.2.5.1](#Section_c85041d2e8824adb95eddd1fd4609bfd)) of the Entity.

**description:**  The description of the Entity. This element SHOULD[<5>](#Appendix_A_5" \o "Product behavior note 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.

#### 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="ExceededMetadataObjectLimitExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="Limit" type="xs:int"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

**ser:FactoryType:** This 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]](https://go.microsoft.com/fwlink/?LinkId=271611).

#### FilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
6. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="filterType" type="tns1:FilterType"/>
7. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**filterField:** The [**field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) affected by the FilterDescriptor. The value MUST be a path as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.17.

**filterType:** The [**FilterType (section 2.2.5.5)**](#Section_d4fb23f25bb14b34ab58d7ec7f40abc8) of a FilterDescriptor.

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) that contains the FilterDescriptor.

#### IdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **IdentifierStruct** complex type contains information about an [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2).

1. <xs:complexType name="IdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
7. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that contains the Identifier.

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

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

| Value | Description |
| --- | --- |
| System.String | A string of [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) text. |
| System.Int16 | A number 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**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). |
| System.Boolean | A bit. |

#### 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained invalid attributes. The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="InvalidMetadataObjectExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

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

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

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

#### InvalidMetadataPropertyExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **InvalidMetadataPropertyExceptionState** 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="InvalidMetadataPropertyExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="MetadataObjectName" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

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

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

#### InvalidOperationException

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

The **InvalidOperationException** 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### LobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="LobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### LobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="LobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="systemType" type="tns1:SystemType"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

**systemType:** The **SystemType** (section [2.2.5.9](#Section_04f465dfce6c4c6c9775a2ca5d4d397c)) of the LobSystem.

#### LocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that contains the localized name. This element MUST be present. The value of this element MUST be in [1, 0x7ffffffff] range.[<6>](#Appendix_A_6" \o "Product behavior note 6)

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) that contains the localized name. This element MUST be present.

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

#### 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**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) constraint in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The complex type MUST only be included as part of a SOAP fault as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

**explicitMessage:** 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) being accessed when the error occurred.

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

#### MetadataObjectNotFoundExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **MetadataObjectNotFoundExceptionState** complex type is an error complex type that contains information about a protocol-server-side error because a requested [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) was not found. The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

1. <xs:complexType name="MetadataObjectNotFoundExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### MetadataObjectStruct

**Namespace:** Microsoft.SharePoint.BusinessData

This structure contains the attributes of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

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

**id:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the MetadataObject, if the MetadataObject already exists in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). Otherwise, this value MUST be 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

**partitionId:** The [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

#### MethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
7. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
8. <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

**isDefault:**  A value which specifies if the MethodInstance is the default one among the MethodInstances of the same time that are contained by the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) 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**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) that contains the MethodInstance. This element MUST be present.

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

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

#### MethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **MethodStruct** complex type contains information about a [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

1. <xs:complexType name="MethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that contains the Method. This element MUST be present.

**isStatic:** A value which specifies if the Method is associated with an [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b). 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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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".

#### ModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ModelStruct** complex type contains information about a [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

1. <xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence/>
5. </xs:extension>
6. </xs:complexContent>
7. </xs:complexType>

#### 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]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) or the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) contained within the specified XML conforming to [MS-BDCMFFS] having invalid configuration of [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) or their attributes. The complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8))

1. <xs:complexType name="PackageFormatExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="ParseErrors" nillable="true" type="q7:ArrayOfstring"/>
5. <xs:element xmlns:q3="Microsoft.BusinessData.SharePoint" minOccurs="0" name="SerializedInnerSystemException" nillable="true" type="q3:MetadataException"/>
6. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>

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

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

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

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

#### ParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

This structure contains the information about a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

1. <xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="direction" type="tns1:DirectionType"/>
6. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
8. <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

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

**methodId:** Specifies the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the Parameter.

**ordinalNumber:** An integer representing the index of the Parameter among all Parameters in the containing [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

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

#### PropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:ComplexValueStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

**metadataObjectId:**  The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the property.

**name:** The name of the property. The value MUST be unique among the names of other properties of the containing [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), within the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

**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.

#### ProxyGenerationResult

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

The **ProxyGenerationResult** complex type contains information about [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<7>](#Appendix_A_7" \o "Product behavior note 7).

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

**compiledBytes:** The 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.

#### 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)).

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

#### TypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="TypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q8:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="associationReferenceName" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
10. <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
11. <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
12. <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
13. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
14. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
15. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
16. <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true" type="xs:string"/>
17. <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="identifierReferenceName" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
21. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
22. <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
23. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
24. </xs:sequence>
25. </xs:extension>
26. </xs:complexContent>
27. </xs:complexType>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) referenced by the TypeDescriptor. If the TypeDescriptor references an Association contained by an active [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e), 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

**associationReferenceEntityNamespace:** The namespace of the Entity that contains the Association referenced by the TypeDescriptor. If the TypeDescriptor references an Association of an Entity that is not active, the value MUST be the namespace of the Entity that contains the referenced Association. Otherwise this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1, 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). 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**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2). 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](#Section_d2f9e7a85c2d4fa08537c554a823f2c4)) 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that contains the TypeDescriptor.

**parentTypeDescriptorId:** The MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. If the TypeDescriptor is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010), the value MUST be 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]](https://go.microsoft.com/fwlink/?LinkId=123096) for the rules structure:

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

**Culture:** Implementation specific[<8>](#Appendix_A_8" \o "Product behavior note 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:

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

where **LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in[[MS-NRTP]](%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec) section [2.2.1.3](http://msdn.microsoft.com/en-us/library/f236e979-38fb-47d0-9e6f-3c24f12480ac/).

**TypeName:** The name of the data type of the value.[<9>](#Appendix_A_9" \o "Product behavior note 9) The format is as specified in [MS-NRTP] section [2.2.1.2](http://msdn.microsoft.com/en-us/library/ece5002e-2076-49a8-9e19-ff6804a95d43/).

The rules MUST be stored 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**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7) from the time zone specified. The specified time zone values are indicated by values UTC, local, and unspecified, which correspond to UTC time zone, local time zone, and UTC time zone without time zone information respectively.

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

* If the Parameter that contains this TypeDescriptor contains a property with name "TypeReflectorTypeName" and type "System.String", the module specified by the identifier represented by the string property value MUST be used. 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>](#Appendix_A_10" \o "Product behavior note 10) The format is as specified in [MS-NRTP], section [2.1.1.1.2](http://msdn.microsoft.com/en-us/library/329eaf99-b24a-4204-b34c-1368a231da00/).

* If the previous condition is not met, and if the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) containing the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) 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**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) 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>](#Appendix_A_11" \o "Product behavior note 11) module MUST be used.

#### Version

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

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

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

**\_Build:** The third significant part of the version. 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.

### Simple Types

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

| Simple type | Description |
| --- | --- |
| **CacheUsage** | Specifies how the protocol client accesses [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) data to perform create, read, update and delete operations, when this information is not provided explicitly by means that are beyond 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character. |
| **DirectionType** | The **DirectionType** simple type specifies the direction of an argument represented by a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) for a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) operation. |
| **duration** | The **duration** simple type represents a duration. |
| **FilterType** | The **FilterType** simple type specifies the type of the filter represented by the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |
| **guid** | The **guid** simple type represents a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). |
| **MethodInstanceType** | This simple type contains information about the type of a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| **PackageContents** | Specifies a subset of the types of the data contained by a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). |
| **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**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). |

#### CacheUsage

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

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

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

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

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

#### char

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

The **char** simple type represents a [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character.

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

#### DirectionType

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

The **DirectionType** simple type specifies the direction of an argument represented by a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) for a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) operation.

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

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

| Value | Meaning |
| --- | --- |
| In | 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. |

#### duration

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

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

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

#### FilterType

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

The **FilterType** simple type specifies the type of the filter represented by the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

1. <xs:simpleType name="FilterType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Comparison"/>
4. <xs:enumeration value="LastId"/>
5. <xs:enumeration value="Limit"/>
6. <xs:enumeration value="PageNumber"/>
7. <xs:enumeration value="Password"/>
8. <xs:enumeration value="SsoTicket"/>
9. <xs:enumeration value="Timestamp"/>
10. <xs:enumeration value="UserContext"/>
11. <xs:enumeration value="Username"/>
12. <xs:enumeration value="UserProfile"/>
13. <xs:enumeration value="Wildcard"/>
14. <xs:enumeration value="Input"/>
15. <xs:enumeration value="Output"/>
16. <xs:enumeration value="InputOutput"/>
17. <xs:enumeration value="Batching"/>
18. <xs:enumeration value="BatchingTermination"/>
19. <xs:enumeration value="UserCulture"/>
20. <xs:enumeration value="ActivityId"/>
21. <xs:enumeration value="Sorting"/>
22. </xs:restriction>
23. </xs:simpleType>

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

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

#### guid

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

The **guid** simple type represents a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

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

#### MethodInstanceType

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

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

1. <xs:simpleType name="MethodInstanceType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Finder"/>
4. <xs:enumeration value="SpecificFinder"/>
5. <xs:enumeration value="GenericInvoker"/>
6. <xs:enumeration value="IdEnumerator"/>
7. <xs:enumeration value="Scalar"/>
8. <xs:enumeration value="AccessChecker"/>
9. <xs:enumeration value="Creator"/>
10. <xs:enumeration value="Updater"/>
11. <xs:enumeration value="Deleter"/>
12. <xs:enumeration value="ChangedIdEnumerator"/>
13. <xs:enumeration value="DeletedIdEnumerator"/>
14. <xs:enumeration value="AssociationNavigator"/>
15. <xs:enumeration value="Associator"/>
16. <xs:enumeration value="Disassociator"/>
17. <xs:enumeration value="StreamAccessor"/>
18. <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
19. <xs:enumeration value="BulkSpecificFinder"/>
20. <xs:enumeration value="BulkAssociatedIdEnumerator"/>
21. <xs:enumeration value="BulkAssociationNavigator"/>
22. <xs:enumeration value="BulkIdEnumerator"/>
23. <xs:enumeration value="EventSubscriber"/>
24. <xs:enumeration value="EventUnsubscriber"/>
25. </xs:restriction>
26. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| Finder | Indicates that the protocol client MUST interpret the MethodInstance as a [**Finder**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0). |
| SpecificFinder | Indicates that the protocol client MUST interpret the MethodInstance as a [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c). |
| GenericInvoker | Indicates that the protocol client MUST interpret the MethodInstance as a [**GenericInvoker**](#gt_e52cf1cb-b958-498e-8226-1643bbc09364). |
| IdEnumerator | Indicates that the protocol client MUST interpret the MethodInstance as a [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533). |
| Scalar | Indicates that the protocol client MUST interpret the MethodInstance as a [**Scalar**](#gt_116cc919-5d69-4572-9a76-8864828651fb). |
| AccessChecker | Indicates that the protocol client MUST interpret the MethodInstance as a [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740). |
| Creator | Indicates that the protocol client MUST interpret the MethodInstance as a [**Creator**](#gt_559fbe4b-eff9-4c6b-8d3e-f42817fcc377). |
| Updater | Indicates that the protocol client MUST interpret the MethodInstance as a [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed). |
| Deleter | Indicates that the protocol client MUST interpret the MethodInstance as a [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9). |
| ChangedIdEnumerator | Indicates that the protocol client MUST interpret the MethodInstance as a [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4). |
| DeletedIdEnumerator | Indicates that the protocol client MUST interpret the MethodInstance as a [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4). |
| AssociationNavigator | Indicates that the protocol client MUST interpret the MethodInstance as a [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c). |
| Associator | Indicates that the protocol client MUST interpret the MethodInstance as a [**Associator**](#gt_492ed21f-01e3-49fb-8db6-6f871650cb13). |
| Disassociator | Indicates that the protocol client MUST interpret the MethodInstance as a [**Disassociator**](#gt_944ed1d9-1520-4e99-bdef-ebd62839a326). |
| StreamAccessor | Indicates that the protocol client MUST interpret the MethodInstance as a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf). |
| BinarySecurityDescriptorAccessor | Indicates that the protocol client MUST interpret the MethodInstance as a [**BinarySecurityDescriptorAccessor**](#gt_416ae112-0853-4d8b-b27b-381cb1e1a89f). |
| BulkSpecificFinder | Indicates that the protocol client MUST interpret the MethodInstance as a [**BulkSpecificFinder**](#gt_47a83bff-2845-46da-8fdd-91824b8302fc). |
| BulkAssociatedIdEnumerator | Indicates that the protocol client MUST interpret the MethodInstance as a [**BulkAssociatedIdEnumerator**](#gt_6561079b-45a7-47de-98da-7e3bc5b9029a). |
| BulkAssociationNavigator | Indicates that the protocol client MUST interpret the MethodInstance as a [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70). |
| BulkIdEnumerator | Indicates that the protocol client MUST interpret the MethodInstance as a [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066). |
| 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**. |

#### PackageContents

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

| Value | Meaning |
| --- | --- |
| None | No data. This value is a composite that indicates that the values Model, LocalizedNames, Permissions, Properties, and InlineProxies were not specified. |
| Model | The [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the MetadataModel. |
| LocalizedNames | The [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) corresponding to the MetadataObjects contained by the MetadataModel. |
| Permissions | The [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) corresponding to the MetadataObjects contained by the MetadataModel. |
| Properties | The [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) corresponding to the MetadataObjects contained by the MetadataModel |
| InlineProxies | The [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) associated with the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) contained by the MetadataModel. |
| All | The MetadataObjects contained by the MetadataModel, along with their localized names, Properties, 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. |

#### SystemType

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

The type of [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) that an **LobSystem** is representing.

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

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

| Value | Meaning |
| --- | --- |
| Database | The represented LOB system is a database. |
| WebService | The represented LOB system is a [**Web service**](#gt_a96bfb18-c329-40f5-89fd-df7a94b89882). |
| 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**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).[<12>](#Appendix_A_12" \o "Product behavior note 12) |
| OData | The represented LOB system is an [**OData service**](#gt_670aff3a-1074-4f55-adf1-7b6a10f00830) that exposes data as per the OData protocol. |

#### TypeDescriptorFlags

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

The **TypeDescriptorFlags** simple type contains information about the characteristics of the data stored in a data structure represented by a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

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

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

| Value | Meaning |
| --- | --- |
| None | No flags exist. |
| CreatorField | This TypeDescriptor MUST be considered as a [**field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for calling a [**Creator**](#gt_559fbe4b-eff9-4c6b-8d3e-f42817fcc377). |
| UpdaterField | This TypeDescriptor MUST be considered as a field for calling an [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed). |
| PreUpdaterField | This TypeDescriptor MUST be used to send the latest value received from the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) corresponding to the field with the same name as this TypeDescriptor when calling an Updater. |
| IsCollection | This TypeDescriptor MUST be interpreted as a collection of data structures. |
| ReadOnly | The protocol client MUST prevent values in the data structures corresponding to this TypeDescriptor from being modified. |
| Significant | The protocol client MUST use the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison. When this flag is not set, The protocol client MUST ignore the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison. |
| IsSortInput | This protocol client MUST use the values in the data structure corresponding to this TypeDescriptor as the input for the **SortingFilter**. When this flag is not set on any TypeDescriptor, the **SortingFilter** MUST be ignored. |

### Attributes

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

### Groups

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

### Attribute Groups

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

# Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

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

Except where specified, protocol clients SHOULD interpret HTTP status codes returned by the protocol server as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults using SOAP faults. Except where specified, these [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) 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.

## 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.

### 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**](#gt_b581857f-39aa-4979-876b-daba67a40f15)
* [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b)
* [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f)
* [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61)
* [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053)
* [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a)
* Cache Version Stamp
* [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a)
* [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e)
* [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb)
* [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2)
* [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66)
* [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1)
* [**Localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423)
* [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c)
* [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968)
* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52)
* [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f)
* [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9)
* [**Property**](#gt_f930baab-25f1-4142-bced-5effc9f62d45)
* [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55)
* [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe)

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**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).

**LobSystemInstance**

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

**DataClass**

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

**Entity**

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

**Identifier**

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

**Method**

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

**MethodInstance**

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

**Association**

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

**Parameter**

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

**TypeDescriptor**

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

**FilterDescriptor**

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

**DefaultValue**

* Has fields named **NeedsTypeReflectionResolution**, **WcfMarshallableValue**, **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.

### Timers

None.

### Initialization

None.

### Message Processing Events and Sequencing Rules

The definitions of some operations in this section make use of ABNF representation as specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096).

The specifications of the operations in this section identify the conditions under which the protocol server MUST respond with corresponding error complex types. In addition, if the protocol server encounters an error specific to its implementation, it MAY respond with any fault listed in the WSDL for its operation. The responses MUST be formatted as SOAP faults, using error complex types serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). The different error complex types have the following meanings:

| Error complex type | Condition |
| --- | --- |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The protocol server encounters an invalid argument value while performing implementation-specific operations. |
| **ArgumentNullException** (section [2.2.4.8](#Section_6028c72bd1494562ae63747224e7879a)) | 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | 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](#Section_74cdd9625a6c465ead9003b4dc242944)) | The protocol server encounters an unrecoverable error while performing implementation-specific operations, or encounters a violation of constraints on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | 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](#Section_7ecd125cef1b4f1ba3c3c35db4f5353d)) | The protocol server discovers a violation of a syntactic or semantic constraint on a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) while performing implementation-specific operations. |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | Within an implementation-specific operation, the protocol server encounters XML that does not conform to the format specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a), or XML conforming to [MS-BDCMFFS] having invalid configuration of [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) or their attributes. |

For the following operations, the protocol client MAY[<13>](#Appendix_A_13" \o "Product behavior note 13) specify values for a subset of the elements of the complex types that inherit from **MethodInstanceStruct** (section [2.2.4.45](#Section_5d76e49a50664bdd945a1e3ceb5e8af6)), including **MetadataObjectStruct** (section [2.2.4.44](#Section_d9b69da0a4d742c4a5fd1a8033eb2422)) itself. The protocol server MUST NOT return a fault for this condition. Unless otherwise specified, the protocol client MUST specify the values of the **Id** and **PartitionId** elements of complex types when used as parameters in the following operations:

* [**AddEntityToModel**](#Section_82f9a333c179468e9e9b207c6e77a7b2)
* [**ClearLocalizedNames**](#Section_c372380910684fdfb4518ef5430df217)
* [**ClearProperties**](#Section_dcff0fcfadc14be097118212525b8499)
* [**CopyAclAcrossChildren**](#Section_6cb93898d7d24a38a2072dd278bfaea6)
* [**CopyAclToSetting**](#Section_89c562047d3e4aca859819297ce0f255)
* [**DeleteNoCascade**](#Section_88920171342d4b51a14c0b85cfb1f7e0)
* [**DeleteProxyAssemblyForLobSystem**](#Section_b66e30a6f6b04e68b4b5907984ee2aa2)
* [**ExportPackage**](#Section_9922b3337c18488495028a81e50008ff)
* [**GetAccessControlEntries**](#Section_0cdeb52000004d2c90ebb139a2cafa1f)
* [**GetAllLocalizedNamesForMetadataObjectStruct**](#Section_3f0afc2d89e34bb4888f2146a35d345d)
* [**GetAllPropertiesForMetadataObjectStruct**](#Section_0a82165eb37d46e093e0b6e7f55cf49a)
* [**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor**](#Section_e664eabeeaa64eb5af9542e8d0fee54a)
* [**GetFieldTypeDescriptorsByMethodInstance**](#Section_20b74dd39e7340208696ab35c3d01b17)
* [**GetLobSystemDataByLobSystem**](#Section_a81e02c688324cb3bfa2200197b3c8f7)
* [**GetTypeReflectorTypeNameForParameter**](#Section_5bfe57a611564616a6aa24920624f064)
* [**ImportPackage**](#Section_284b2a0869984c7a88d5dba0ef750552)
* [**ImportPackageWithProgress**](#Section_6f501ddbd9da442cacad613169aa33b7)
* [**MetadataObjectCreate**](#Section_68429c349ffc421fb6b31fea6c0e3b57)
* [**MetadataObjectMergeXml**](#Section_f81bdd4da0b6423484276876f0023ba9)
* [**MetadataObjectReadXml**](#Section_1ae9a69824454af28fe56a0fcfdc6ee2)
* [**MetadataObjectWriteXml**](#Section_3285e18a69124b6995819b5d2305afb2)
* [**ModelReadXml**](#Section_abc9293a843742bcbc2ea60523c0dba9)
* [**ReadSlicedXml**](#Section_3be62187d2104869bf7d2a637a8ce571)
* [**RemoveEntityFromModel**](#Section_4340ab37045a46678bf156c8effdd739)
* [**RemoveLocalizedName**](#Section_dc4230906d694e9abcf55784fa3cf819)
* [**RemoveProperty**](#Section_227490859a2e4d5a968dbdc298178514)
* [**SaveLocalizedName**](#Section_723ece42be2148afbce21b8c35a5775d)
* [**SaveProperty**](#Section_fbfe67c8ac444f1eab7afa1c36b0c18b)
* [**SetAccessControlEntries**](#Section_c6ec21066f3447f2827948093b2d35ee)
* [**SetDefaultActionForEntity**](#Section_3d204ea7f956474c9712d4678719039c)
* [**TypeDescriptorCreate**](#Section_e9f617db02b041c5893ae91b3cb94863)
* [**TypeDescriptorMergeXml**](#Section_29f8a56204be4de5b2655ac37306baa3)
* [**TypeDescriptorReadXml**](#Section_f81bdae659e44df981f78e817dfbec5b)

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**](#Section_fddaefa512fb420b814f190f968c2a9d) | The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) specified by **entityStruct** element. |
| [**AddAssociationReferenceToAssociationGroup**](#Section_9ac34a82251b43eca06f8eadcaa39c15) | The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) specified by **associationGroupStruct** element. |
| [**BulkSwitchActiveOrValidate**](#Section_0aedc3b5ca674ca6af17ac57dfeb7e5d) | The Entities specified by **entityStructs** element. [<14>](#Appendix_A_14" \o "Product behavior note 14) |
| [**Deactivate**](#Section_d43fc8d5f32949b4a9da6157b3dfa111) | The Entity specified by **entityStruct** element. |
| [**DeleteAssociationReferenceFromAssociationGroup**](#Section_1cf774f355304933971ec610e24bb7a9) | The AssociationGroup which contains the [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) specified by **associationReferenceStruct** element. |
| [**Update**](#Section_ad827ba1b72f4cb9a2078e6b028016a9) | 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**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| **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 a **ReturnTypeDescriptorPath** in [MS-BDCMFFS] section 2.1.3.31, corresponds to a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in a [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a), along with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of one such **MethodInstance**, if one exists. |
| **ClearLocalizedNames** | This operation is used to remove all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified MetadataObject from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **ClearProperties** | This operation is used to remove all [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) of the specified MetadataObject from the specified Setting. |
| **CopyAclAcrossChildren** | This operation is used to clear the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the descendent MetadataObjects of a specified **MetadataObject**, then copy the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject**, or the **MetadataObject** is contained by the specified **MetadataObject** itself.  If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8), the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and their descendent **MetadataObjects** if the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**. |
| **CopyAclAcrossChildrenForSetting** | This operation is used to clear the ACEs in a specified Setting on the descendent MetadataObjects of the specified **MetadataObject**, then copy the ACEs in the specified **Setting** on the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject**, or the **MetadataObject** is contained by the specified **MetadataObject** itself.  If the specified **MetadataObject** is a MetadataCatalog, the protocol server MUST NOT change the ACEs of any LobSystem and their descendent **MetadataObjects** if the security principal (2) in whose context the protocol client is operating is not authorized to edit the **LobSystem**. |
| **CopyAclToSetting** | This operation is used to delete the ACEs of the specified non-default Setting and the specified MetadataObject, then copy the ACEs of the default **Setting** and the specified **MetadataObject** to the specified **Setting** and the specified **MetadataObject**. |
| **Deactivate** | This operation is used to set the active version of an Entity as not active. |
| **Delete** | This operation is used to delete the specified MetadataObject. |
| **DeleteAssociationReferenceFromAssociationGroup** | This operation is used to remove an AssociationReference from an AssociationGroup by deleting the **AssociationReference**. |
| **DeleteDefaultValueForTypeDescriptor** | This operation is used to delete the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified TypeDescriptor for the specified MethodInstance. |
| **DeleteNoCascade** | This operation is used to delete the specified MetadataObject without deleting the **MetadataObjects** it references. |
| **DeleteProxyAssemblyForLobSystem** | This operation is used to delete a [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<15>](#Appendix_A_15" \o "Product behavior note 15)** associated with the specified LobSystem. |
| **EntityCreate** | This operation is used to create an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified **LobSystem** to the created **Entity**. If a Model is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise the created **Entity** is not referenced by any **Model**. |
| **ExportPackage** | This operation is used to retrieve an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) 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. |
| **GenerateProxyAssemblyForLobSystem** | This operation is used to force the protocol server to create an implementation-specific Business Logic Module[<16>](#Appendix_A_16" \o "Product behavior note 16) for the specified LobSystem to connect to the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem** this operation MUST NOT create another Business Logic Module and MUST complete successfully. |
| **GetAccessControlEntries** | This operation is used to retrieve the ACEs for the specified MetadataObject from the specified Setting. If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**. |
| **GetActionById** | This operation is used to retrieve the specified [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b). |
| **GetActionParameterById** | This operation is used to retrieve the specified [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). |
| **GetActionParametersForAction** | This operation is used to retrieve the ActionParameters of the specified Action. |
| **GetActionsForEntity** | This operation is used to retrieve the Actions of the specified Entity. |
| **GetAllLocalizedNames** | This operation is used to retrieve all localized names of the specified MetadataObject. |
| **GetAllLocalizedNamesForMetadataObjectStruct** | This operation is used to retrieve all the localized names of the specified MetadataObject for the specified Setting. |
| **GetAllPartitionIds** | This operation is deprecated from the protocol and MUST NOT be called. |
| **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**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) 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**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968). |
| **GetCacheInvalidationRecordsSince** | This operation is deprecated from the protocol and SHOULD NOT[<17>](#Appendix_A_17" \o "Product behavior note 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**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) 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>](#Appendix_A_18" \o "Product behavior note 18) |
| **GetDataClassById** | This operation is used to retrieve the DataClass with the specified MetadataObjectId. |
| **GetDataClassesForSystem** | This operation is used to retrieve DataClasses contained by the specified LobSystem. |
| **GetDefaultValuesForTypeDescriptor** | This operation is used to retrieve the DefaultValues of the specified TypeDescriptor. |
| **GetEntitiesForAssociationAndRole** | This operation is used to retrieve the Entities performing the role of source or destination for the specified Association. |
| **GetEntitiesForSystem** | This operation is used to retrieve Entities of the specified LobSystem. |
| **GetEntitiesLikeNameAndNamespace** | This operation is used to retrieve the Entities that match the specified wildcard patterns for name and namespace.  An **Entity** matches the pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Entity**, or the localized name of the **Entity** with [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 0, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.  An **Entity** matches the pattern specified by **wildcardedNamespace** if and only if **wildcardedNamespace** matches the namespace of the **Entity**. |
| **GetEntitiesReferencedByModelId** | This operation is used to retrieve Entities which are referenced by the specified Model. |
| **GetEntityById** | This operation is used to retrieve the Entity with the specified MetadataObjectId. |
| **GetEntityCount** | This operation retrieves the number of Entity elements that are contained by the specified LobSystem. |
| **GetEntityNameAndNamespacesForAssociationAndRole** | This operation is used to retrieve the names and namespaces of Entities which are referenced by the specified Association. Only **Entities** in the specified association **role** of source or destination are returned. |
| **GetEntityWithNameAndNamespace** | This operation is used to retrieve the active Entity with the specified name and namespace in the specified [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). |
| **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**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the MethodInstance with the specified name on the specified Entity. |
| **GetFilterDescriptorById** | This operation is used to retrieve the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) with the specified MetadataObjectId. |
| **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>](#Appendix_A_19" \o "Product behavior note 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>](#Appendix_A_20" \o "Product behavior note 20) associated with the specified LobSystem. |
| **GetLobSystemInstanceById** | This operation is used to retrieve the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) 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>](#Appendix_A_21" \o "Product behavior note 21) are returned. |
| **GetLobSystemProxyAssemblyBytesByLobSystemId** | This operation is used to retrieve the implementation-specific Business Logic Module**[<22>](#Appendix_A_22" \o "Product behavior note 22)** associated with the specified LobSystem. |
| **GetLobSystemsLikeName** | This operation is used to retrieve the LobSystems that match the specified wildcard pattern that the security principal (2) in whose context the protocol client is operating is authorized to read.[<23>](#Appendix_A_23" \o "Product behavior note 23)  An **LobSystem** matches the wildcard pattern specified by **searchLikeName** if and only if **searchLikeName** matches the name of the **LobSystem**, or the localized name of the **LobSystem** with LCID 0, or the localized name of the **LobSystem** with the LCID specified by **callerCultureLcid**. |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModel** | This operation is used to retrieve the LobSystems that the security principal (2) in whose context the protocol client is operating is authorized to read[<24>](#Appendix_A_24" \o "Product behavior note 24) that are referenced by Entities associated with the specified Model. |
| **GetMethodById** | This operation is used to retrieve the Method with the specified MetadataObjectId. |
| **GetMethodInstanceById** | This operation is used to retrieve the MethodInstance with the specified MetadataObjectId. |
| **GetMethodInstancesForDataClass** | This operation is used to retrieve the MethodInstances contained by the Methods contained by the specified DataClass. |
| **GetMethodInstancesForMethod** | This operation is used to retrieve the MethodInstances contained by the specified Method. |
| **GetMethodsForDataClass** | This operation is used to retrieve the Methods contained by the specified DataClass. |
| **GetModelById** | This operation is used to retrieve the Model with the specified MetadataObjectId. |
| **GetModelByName** | This operation is used to retrieve the specified Model. |
| **GetModelsByEntityId** | This operation is used to retrieve the Models that reference the specified Entity. |
| **GetModelsByName** | This operation is used to retrieve the Models that match the specified wildcard pattern.  A **Model** matches the wildcard pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Model**, or the localized name of the **Model** with LCID 0, or the localized name of the **Model** with the LCID specified by **callerCultureLcid**. |
| **GetParameterById** | This operation is used to retrieve the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) with the specified MetadataObjectId. |
| **GetParametersForMethod** | This operation is used to retrieve the Parameters of the specified Method. |
| **GetRootTypeDescriptorForParameter** | This operation is used to retrieve the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the specified Parameter. |
| **GetServiceApplicationId** | This operation is used to retrieve the unique implementation-specific identifier of metadata store. |
| **GetSystemUtilityTypeNameForLobSystem** | This operation is used to retrieve the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem. |
| **GetTypeDescriptorById** | This operation is used to retrieve the TypeDescriptor with the specified MetadataObjectId. |
| **GetTypeDescriptorsByNameAndLevelForParameter** | This operation SHOULD[<25>](#Appendix_A_25" \o "Product behavior note 25) retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a **TypeDescriptor** is defined as follows:   * The level of the root **TypeDescriptor** is 0. * The level of specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**. |
| **GetTypeDescriptorsForFilterDescriptor** | This operation is used to retrieve TypeDescriptors referenced by the specified FilterDescriptor. |
| **GetTypeReflectorTypeNameForParameter** | This operation is used to retrieve the implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified Parameter. |
| **GetXmlSchemaForView** | This operation is used to retrieve an [**XML schema definition (XSD)**](#gt_c7e91c99-e45a-44c2-a08a-c34f137a2cae) 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]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610). The following types of **MethodInstance** have a **View** corresponding to them:   * [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) * [**BulkSpecificFinder**](#gt_47a83bff-2845-46da-8fdd-91824b8302fc) * [**Finder**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0) * [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c) * [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70) * [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533) * [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) * [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4) * [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066) * [**Creator**](#gt_559fbe4b-eff9-4c6b-8d3e-f42817fcc377) * [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed)   The MethodInstances of any other type do not have a View associated with them. |
| **HaveRights** | The **HaveRights** operation retrieves whether the security principal (2) in whose context the protocol client is operating has the specified permission on the specified MetadataObject based on the permissions specified by the ACEs in the specified Setting associated with the specified **MetadataObject**. |
| **ImportPackage** | This operation is used to create the following objects in the metadata store:   * MetadataObjects contained by the specified MetadataModel along with their properties, localized names and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as XML that conforms to [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains an LobSystem that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all LobSystemInstances contained by that **LobSystem** along with properties, localized names and ACEs of the ignored MetadataObjects. If the **MetadataModel** contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [MS-BDCMFFS] section 2.2.3.28. |
| **ImportPackageWithProgress** | This operation is used to create the following objects in the metadata store:   * MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as XML that conforms to [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains an LobSystem that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all LobSystemInstances contained by that **LobSystem** along with properties, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [MS-BDCMFFS] section 2.2.3.28.   The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the **GetImportProgress** operation with the specified identifier. |
| **IsMethodInstantiated** | This operation is used to determine if the specified Method contains at least one MethodInstance. |
| **IsParameterReferencedByMethodInstance** | The **IsParameterReferencedByMethodInstance** operation checks whether the specified Parameter contains any TypeDescriptor that is the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) 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 specified **MetadataObject** is a MetadataCatalog, and another **MetadataCatalog** with the same Partition as the specified **MetadataCatalog** already exists, then this operation MUST NOT change the state of the data in the metadata store. |
| **MetadataObjectMergeXml** | This operation is used to merge the Properties, localized names, and ACEs contained by the specified MetadataModel into the existing MetadataObjects in the metadata store. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:   * Action element as specified in [MS-BDCMFFS] section 2.2.3.3. * ActionParameter element as specified in [MS-BDCMFFS] section 2.2.3.4. * Association element as specified in [MS-BDCMFFS] section 2.2.3.7. * AssociationGroup element as specified in [MS-BDCMFFS] section 2.2.3.8 * Entity element as specified in [MS-BDCMFFS] section 2.2.3.11. * FilterDescriptor element as specified in [MS-BDCMFFS] section 2.2.3.12. * Identifier element as specified in [MS-BDCMFFS] section 2.2.3.14. * LobSystem element as specified in [MS-BDCMFFS] section 2.2.3.17. * LobSystemInstance element as specified in [MS-BDCMFFS] section 2.2.3.18. * Method element as specified in [MS-BDCMFFS] section 2.2.3.24. * MethodInstance element as specified in [MS-BDCMFFS] section 2.2.3.25. * Model element as specified in [MS-BDCMFFS] section 2.2.3.28 * Parameter element as specified in [MS-BDCMFFS] section 2.2.3.29. |
| **MetadataObjectReadXml** | This operation is used to create MetadataObjects in the metadata store, optionally along with their Properties, localized names, and ACEs, contained by the specified MetadataModel. This operation creates **Properties**, localized names, and ACEs for default Setting. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:   * Action element as specified in [MS-BDCMFFS] section 2.1.3.3. * ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. * Association element as specified in [MS-BDCMFFS] section 2.1.3.7. * AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.3.8. * Entity element as specified in [MS-BDCMFFS] section 2.1.3.16. * Identifier element as specified in [MS-BDCMFFS] section 2.1.3.19. * FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.17. * LobSystem element as specified in [MS-BDCMFFS] section 2.1.3.23. * LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.3.24. * Method element as specified in [MS-BDCMFFS] section 2.1.3.30. * MethodInstance element as specified in [MS-BDCMFFS] section 2.1.3.31. * Parameter element as specified in [MS-BDCMFFS] section 2.1.3.37. |
| **MetadataObjectWriteXml** | The **MetadataObjectWriteXml** operation is used to retrieve an XML representation of the followingobjectsfrom 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. |
| **ModelReadXml** | This operation is used to create MetadataObjects contained by the specified MetadataModel along with their Properties, localized names, and ACEs in the metadata store. The **MetadataModel** MUST be specified as an XML that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains an LobSystem that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all LobSystemInstances contained by that **LobSystem** and **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. |
| **ReadSlicedXml** | This operation is deprecated from the protocol and MUST NOT be called. |
| **RemoveEntityFromModel** | This operation is used to remove the reference to the specified Entity from the specified Model. |
| **RemoveLocalizedName** | This operation is used to remove the localized name with the specified LCID from the specified MetadataObject. |
| **RemoveProperty** | This operation is used to remove the specified Property from the specified MetadataObject. |
| **SaveLocalizedName** | This operation is used to add or replace a localized name for the specified MetadataObject. If a localized name with the same LCID as the specified LCID already exists for the specified **MetadataObject**, the protocol server MUST replace the localized name of the specified **MetadataObject** with 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)**](#gt_9f92aa05-dd0a-45f2-88d6-89f1fb654395) 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](#Section_d875144119eb4b22bf6dfbd6e746ef36)) 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. |
| **WriteSlicedXml** | This operation is deprecated from the protocol and SHOULD NOT[<26>](#Appendix_A_26" \o "Product behavior note 26) be called. |

#### Activate

This operation is used to set the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) active.

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

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

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

If any one of the conditions in the 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](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (1)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Entity**. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The operation cannot be performed for one of the following reasons:   * The specified **Entity** or another version of the specified **Entity** is already active. * The protocol server encountered reference errors as specified in section [3.1.4.4.3.2](#Section_f7b5c3e001f247659dae6bb9fa9d809c) when performing this operation. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Entity** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_Activate\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_Activate\_OutputMessage

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

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

##### Elements

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

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

###### Activate

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

1. <xs:element name="Activate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entityStruct:** The specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

###### ActivateResponse

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

1. <xs:element name="ActivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ActivateResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ActivateResult:**  The activated [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### AddAssociationReferenceToAssociationGroup

This operation is used to create the specified [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) in the specified [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

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

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

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **AssociationGroup**. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | Another AssociationReference in the specified **AssociationGroup** references the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) that is referenced by the specified **AssociationReference**. |
| **ExceededMetadataobjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | The specified **AssociationGroup** already contains the implementation-specific maximum number of **AssociationReferences**. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The operation cannot be performed because [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) containing the **AssociationGroup** is active. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage

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

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

##### Elements

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

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

###### AddAssociationReferenceToAssociationGroup

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

1. <xs:element name="AddAssociationReferenceToAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationGroupStruct" nillable="true" type="q8:AssociationGroupStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationGroupStruct:**  The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

**associationReferenceStruct:**  The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).

###### AddAssociationReferenceToAssociationGroupResponse

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

1. <xs:element name="AddAssociationReferenceToAssociationGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="AddAssociationReferenceToAssociationGroupResult" nillable="true" type="q8:AssociationGroupStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**AddAssociationReferenceToAssociationGroupResult:**  The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

**associationReferenceStruct:**  The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) which contains the wrong **AssociationGroupId**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### AddEntityToModel

This operation is used to add a reference to the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

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

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

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Model**. |
| **MetadataObjectnotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Model** does not exist. |
| **BdcExceptionState** (section [2.2.4.25](#Section_74cdd9625a6c465ead9003b4dc242944)) | The specified **Entity** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage

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

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

##### Elements

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

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

###### AddEntityToModel

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

1. <xs:element name="AddEntityToModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**modelStruct:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**entityStruct:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

###### AddEntityToModelResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### BulkSwitchActiveOrValidate

This operation is used to change the active version of the specified set of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e), or validate the specified **Entities** for the purpose of changing the active versions and identify related errors.

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

1. <wsdl:operation name="BulkSwitchActiveOrValidate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The value of the **validate** element is "false" and the [**security principal (1)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The **entityStructs** element in **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** has no elements. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | 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](#Section_f7b5c3e001f247659dae6bb9fa9d809c)) when performing this operation. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One or more of the specified **Entities** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage

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

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

##### Elements

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

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

###### BulkSwitchActiveOrValidate

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

1. <xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStructs" nillable="true" type="q8:ArrayOfEntityStruct"/>
5. <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q8:ModelStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityStructs:** The [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) 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. [<27>](#Appendix_A_27" \o "Product behavior note 27)

###### BulkSwitchActiveOrValidateResponse

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

1. <xs:element name="BulkSwitchActiveOrValidateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="BulkSwitchActiveOrValidateResult" nillable="true" type="q8:ArrayOfActivationErrorRecordStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStructs" nillable="true" type="q8:ArrayOfEntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

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

**entityStructs:** This element MUST contain information about [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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".[<28>](#Appendix_A_28" \o "Product behavior note 28)

##### Complex Types

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

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

###### ArrayOfActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfActivationErrorRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct" nillable="true" type="q8:ActivationErrorRecordStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

###### ActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActivationErrorRecordStruct** complex type contains information about a single reference error encountered during the operation. A reference error indicates a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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.

1. <xs:complexType name="ActivationErrorRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="containingEntityVersion" nillable="true" type="xs:string"/>
10. <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
11. <xs:element minOccurs="0" name="containingParameterName" nillable="true" type="xs:string"/>
12. <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
13. <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true" type="xs:string"/>
14. <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
15. <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true" type="xs:string"/>
16. <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
17. <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
21. <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
22. </xs:sequence>
23. </xs:complexType>

**aGAssociationEntityReferenceName:** The name of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) containing the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) referenced by the [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) that is in error.

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

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

**containingAssociationGroupName:** The name of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that is in error or contains the **AssociationReference** 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]](https://go.microsoft.com/fwlink/?LinkId=123096) for the **ContainingEntityVersion** structure:

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

Major = 1\*10DIGIT

Minor = 1\*10DIGIT

Build = 1\*10DIGIT

Revision = 1\*10DIGIT

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

**containingMethodName:** The name of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) that contains the **MetadataObject** that is in error.

**containingParameterName:** The name of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that contains the **MetadataObject** in error.

**containingTypeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that is in error.

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

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

| Value | Description |
| --- | --- |
| -1003 | A **TypeDescriptor** is in error because it references an [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) that doesn’t exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **containingParameterName**, **containingTypeDescriptorName**, **containingTypeDescriptorId**, **tDIDReferenceName**, **tDIDReferenceTypeName**, **tDIDEntityReferenceName**, and **tDIDEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -1004 | A **TypeDescriptor** is in error because it references an **Association** that doesn’t exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **containingParameterName**, **containingTypeDescriptorName**, **containingTypeDescriptorId**, **tDAssociationReferenceName**, **tDAssociationEntityReferenceName**, and **tDAssociationEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -1005 | An **Entity** is in error because the **TypeDescriptors** that are contained in the Parameters of its Methods are referencing only non-empty strict subset of **Identifiers** of an active **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **tDIDEntityReferenceName**, and **tDIDEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -1008 | An AssociationReference is in error because it references an Association that doesn’t exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingAssociationGroupName**, **aGAssociationReferenceName**, **aGAssociationEntityReferenceName**, and **aGAssociationEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -1011 | An Association is in error because the **Entity** containing the **Association** is not contained by the same [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) as the destination **Entity** of the **Association**. For this error code, **ContainingEntityNamespace**, **ContainingEntityName**, **ContainingEntityVersion**, **ContainingMethodName**, and **AGAssociationReferenceName** all MUST NOT be NULL. All other columns MUST be ignored by the protocol client. |
| -1012 | An **Association** is in error because all of the conditions in the following list are **true**:   * The destination **Entity** of the **Association** contains [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), and there exists a **TypeDescriptor** contained by the **Parameter** that contains the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of this **MethodInstance**. * The same **TypeDescriptor** references an **Identifier** of a source **Entity** of the **Association**. * The same **TypeDescriptor** references the **Association**. * The **ReturnTypeDescriptor** of the **Association** has the **IsCollection** flag not set.   Or, all of the conditions in the following list are **true**:   * The source **Entity** of the **Association** contains a **MethodInstance**, and there exists a **TypeDescriptor** contained by the **Parameter** that contains the **ReturnTypeDescriptor** of this **MethodInstance**. * The same **TypeDescriptor** references an **Identifier** of the destination **Entity** of the **Association**. * The same **TypeDescriptor** references the **Association**. * The **ReturnTypeDescriptor** of the **Association** has the **IsCollection** flag set.   For this error code, **ContainingEntityNamespace**, **ContainingEntityName**, **ContainingEntityVersion**, **ContainingMethodName**, and **AGAssociationReferenceName** all MUST NOT be NULL. All other columns MUST be ignored by the protocol client. |
| -800 | An AssociationGroup is in error because all **Associations** referenced by the AssociationReferences contained by this **AssociationGroup** with the **IsReverse** attribute set to **false** do not have same sources. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -801 | An **AssociationGroup** is in error because one of the following conditions is **true**:   * The **Entity** containing **AssociationGroup** is not the destination of this **AssociationGroup**. * The **AssociationGroup** contains **AssociationReferences** with IsReverse attribute is set to true, but the **AssociationGroup** has more than one source.   For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -802 | An **AssociationGroup** is in error because there is more than one **Association** which is an [**Associator**](#gt_492ed21f-01e3-49fb-8db6-6f871650cb13) or a [**Disassociator**](#gt_944ed1d9-1520-4e99-bdef-ebd62839a326) referenced from the **AssociationReferences** of this **AssociationGroup**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -803 | An **AssociationGroup** is in error because one of the following conditions is **true**:   * There are more than one **Association** which is an [**BulkAssociatedIdEnumerator**](#gt_6561079b-45a7-47de-98da-7e3bc5b9029a) referenced from the **AssociationReferences** of this **AssociationGroup** with **IsReverse** attribute is set to **false**. * There are more **Associations** that are **BulkAssociatedIdEnumerators** referenced from the **AssociationReferences** of this **AssociationGroup** with **IsReverse** attribute is set to **true**, than the number of sources of this **AssociationGroup**.   For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -804 | An **AssociationGroup** is in error because it contains an **AssociationReference** which has **IsReverse** attribute set to **true**, but the **Association** it references is not an [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c), a [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70) or a **BulkAssociatedIdEnumerator**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client. |
| -805 | An **Association** is in error because it is a **BulkAssociationNavigator** and it is not referenced from an **AssociationReference** that is contained in an **AssociationGroup** which has another **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.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to a **ReturnTypeDescriptorPath** in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.31, corresponds to a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in a [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a), along with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of one such **MethodInstance**, if one exists.

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

1. <wsdl:operation name="CheckPathInMethodInstances" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The specified path did not conform to the specification for **ReturnTypeDescriptorPath** in [MS-BDCMFFS] section 2.1.3.31. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified DataClass does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage

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

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

##### Elements

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

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

###### CheckPathInMethodInstances

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

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

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**dottedPath:** The path to the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) from the **TypeDescriptors** contained by the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of the **MethodInstance**. The value MUST be a path that conforms to a **ReturnTypeDescriptorPath** in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.31.

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

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### CheckPathInMethodInstancesResponse

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

1. <xs:element name="CheckPathInMethodInstancesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

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

**methodInstanceId:** The value MUST be the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of any of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that has a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in its [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) corresponding to the specified path. If the specified **DataClass** contains more than one **MethodInstance** that matches the criteria, which of those **MethodInstances** is returned is determined in an implementation-specific manner. If the specified **DataClass** does not contain a **MethodInstance** that matches the criteria, the value MUST be 0.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ClearLocalizedNames

This operation is used to remove all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

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

1. <wsdl:operation name="ClearLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_f22d04daace94a32b13cc4e574f45249)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified MetadataObject. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage

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

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

##### Elements

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

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

###### ClearLocalizedNames

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

1. <xs:element name="ClearLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of which the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) will be removed. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to delete the localized names.

###### ClearLocalizedNamesResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ClearProperties

This operation is used to remove all [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

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

1. <wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_f22d04daace94a32b13cc4e574f45249)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified MetadataObject. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_ClearProperties\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage

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

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

##### Elements

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

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

###### ClearProperties

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

1. <xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of which the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) will be removed.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to delete the **Properties**.

###### ClearPropertiesResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclAcrossChildren

This operation is used to clear the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the descendent [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of a specified **MetadataObject**, then copy the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject**, or the **MetadataObject** is contained by the specified **MetadataObject** itself.

If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8), the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and their descendent **MetadataObjects** if the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

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

1. <wsdl:operation name="CopyAclAcrossChildren" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_f22d04daace94a32b13cc4e574f45249)) | 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The **MetadataObjectId** of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage

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

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

##### Elements

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

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

###### CopyAclAcrossChildren

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

1. <xs:element name="CopyAclAcrossChildren" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

###### CopyAclAcrossChildrenResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclAcrossChildrenForSetting

This operation is used to clear the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in a specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) on the descendent [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of the specified **MetadataObject**, 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**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8), the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and their descendent **MetadataObjects** if the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

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

1. <wsdl:operation name="CopyAclAcrossChildrenForSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage

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

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

##### Elements

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

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

###### CopyAclAcrossChildrenForSetting

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

1. <xs:element name="CopyAclAcrossChildrenForSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to copy the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) to and from.

###### CopyAclAcrossChildrenForSettingResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclToSetting

This operation is used to delete the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the specified non-default [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) and the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="CopyAclToSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified ACEs. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage

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

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

##### Elements

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

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

###### CopyAclToSetting

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

1. <xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this element MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

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

###### CopyAclToSettingResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Deactivate

This operation is used to set the active version of an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) as not active.

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

1. <wsdl:operation name="Deactivate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse" message="tns:BusinessDataCatalogSharedService\_Deactivate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Entity**. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions is satisfied:   * This operation cannot be performed because the protocol server encountered reference errors (as specified in section [3.1.4.4.3.2](#Section_f7b5c3e001f247659dae6bb9fa9d809c)) when performing this operation. * This operation cannot be performed because the specified **Entity** is already not active. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Entity** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_Deactivate\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_Deactivate\_OutputMessage

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

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

##### Elements

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

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

###### Deactivate

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

1. <xs:element name="Deactivate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entityStruct:**  The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to set as not active.

###### DeactivateResponse

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

1. <xs:element name="DeactivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="DeactivateResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DeactivateResult:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that was set as not active as a result of this operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Delete

This operation is used to delete the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

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

1. <wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService\_Delete\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse" message="tns:BusinessDataCatalogSharedService\_Delete\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Delete\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Delete\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, or the specified **MetadataObject** is a [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) and the security principal (2) in whose context the protocol client is operating is not authorized to modify one or more of the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) which contain one or more **Entity** referenced by the specified Model. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions is satisfied:   * The operation cannot be performed because the specified **MetadataObject** is an **Entity**, which, if active, MUST be made not active before being deleted. An attempt was made to make the **Entity** not active, but, at the time of the attempt, the **Entity** was no longer active. * The operation cannot be performed because the specified **MetadataObject** is a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e) and is currently used in a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of type [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) or [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4). * 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**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) 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](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

Any [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) that are child objects of the specified **MetadataObject** MUST also be deleted. If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

| MetadataObject | Action |
| --- | --- |
| [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) | Delete all the [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) contained in the specified **Action**. |
| **Entity** | Delete all **Actions**, [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968), [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) and [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner. If the LobSystem that is the parent of this **Entity** contains no other **Entities**, also delete the **LobSystem**, as well as all of **LobSystem**’s child objects in a recursive manner. |
| **LobSystem** | Delete all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) that are child objects of the specified **LobSystem**. |
| **Method** | Delete all **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**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) 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. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_Delete\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_Delete\_OutputMessage

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

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

##### Elements

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

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

###### Delete

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

1. <xs:element name="Delete" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) which this operation MUST delete.

###### DeleteResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteAssociationReferenceFromAssociationGroup

This operation is used to remove an [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) from an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) by deleting the **AssociationReference**.

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

1. <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions is satisfied:   * The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The **associationGroupId** of the specified **AssociationReference** is 0. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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.[<29>](#Appendix_A_29" \o "Product behavior note 29) |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The operation cannot be performed because the **Entity** which contains the **AssociationGroup** which contains the specified **AssociationReference** is active.[<30>](#Appendix_A_30" \o "Product behavior note 30) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The **AssociationGroup** that is specified by the **associationGroupId** of the  specified **AssociationReference** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage

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

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

##### Elements

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

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

###### DeleteAssociationReferenceFromAssociationGroup

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

1. <xs:element name="DeleteAssociationReferenceFromAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationReferenceStruct:** The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### DeleteAssociationReferenceFromAssociationGroupResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteDefaultValueForTypeDescriptor

This operation is used to delete the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) for the specified [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

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

1. <wsdl:operation name="DeleteDefaultValueForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) containing the specified TypeDescriptor. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the **TypeDescriptor** or the MethodInstance is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **TypeDescriptor** or the specified **MethodInstance** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage

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

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

##### Elements

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

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

###### DeleteDefaultValueForTypeDescriptor

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

1. <xs:element name="DeleteDefaultValueForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**methodInstanceId:** The **MetadataObjectId** for the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### DeleteDefaultValueForTypeDescriptorResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteNoCascade

This operation is used to delete the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) without deleting the **MetadataObjects** it references.

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

1. <wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_f22d04daace94a32b13cc4e574f45249)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions is satisfied:   * The operation cannot be performed because the specified **MetadataObject** is an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e), 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e) and is currently used in a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of type [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) or [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4). * The specified **MetadataObject** is an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) 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](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

Any [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) that are child objects of the specified **MetadataObject** MUST also be deleted. If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

| MetadataObject | Action |
| --- | --- |
| **Action** | Delete all the [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) contained in the specified **Action**. |
| **Entity** | Delete all **Actions**, **Methods**, **Identifiers**, and [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner. |
| LobSystem | Delete all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) that are child objects of the specified **LobSystem**. |
| **Method** | Delete all **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**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) 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. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage

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

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

##### Elements

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

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

###### DeleteNoCascade

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

1. <xs:element name="DeleteNoCascade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) which this operation MUST delete.

###### DeleteNoCascadeResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteProxyAssemblyForLobSystem

This operation is used to delete a [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<31>](#Appendix_A_31" \o "Product behavior note 31)** associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

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

1. <wsdl:operation name="DeleteProxyAssemblyForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.   
  
If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified LobSystem. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **LobSystem** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage

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

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

##### Elements

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

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

###### DeleteProxyAssemblyForLobSystem

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

1. <xs:element name="DeleteProxyAssemblyForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) for which the [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<32>](#Appendix_A_32" \o "Product behavior note 32)** will be deleted.

###### DeleteProxyAssemblyForLobSystemResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### EntityCreate

This operation is used to create an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The operation MUST copy [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) from the specified **LobSystem** to the created **Entity**. If a [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise the created **Entity** is not referenced by any **Model**.

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

1. <wsdl:operation name="EntityCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) in which the **Entity** is to be created. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | At least one of the following is **true**:   * The namespace specified for the new **Entity** is NULL or empty. * The length of the namespace specified for the new **Entity** is greater than 255 characters. * The name specified for the new **Entity** is NULL or empty. * The length of the name specified for the new **Entity** is greater than 255 characters. |
| **ArgumentNullException** (section [2.2.4.8](#Section_6028c72bd1494562ae63747224e7879a)) | The version specified for a new **Entity** is NULL. |
| **DuplicateMetadataObjectExceptionState** (section [2.2.4.30](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | The **Entity** with the same name, namespace, version, and partition already exists in the specified **LobSystem**. |
| **ExceededMetadataobjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | The specified **LobSystem** already contains the implementation-specific maximum number of **Entities**. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Model does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_EntityCreate\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage

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

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

##### Elements

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

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

###### EntityCreate

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

1. <xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q8:EntityStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q8:ModelStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**rawValues:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be created.

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) in which the **Entity** will be created.

**modelStruct:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) that references the created **Entity**. If the **Model** is NULL or its [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0, the protocol server MUST ignore it. Otherwise the [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### EntityCreateResponse

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

1. <xs:element name="EntityCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="EntityCreateResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**EntityCreateResult:** The created [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ExportPackage

This operation is used to retrieve an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the following objects from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) 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**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

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

1. <wsdl:operation name="ExportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The security principal (2) in whose context the protocol client is operating is not authorized to export[<33>](#Appendix_A_33" \o "Product behavior note 33) the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The "InlineProxies" value requires the "Model" value to be also specified for the **packageContents** element. |
| **ArgumentNullException** (section [2.2.4.8](#Section_6028c72bd1494562ae63747224e7879a)) | The specified **Model** is NULL. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Model** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Model** or other **MetadataObjects** to be exported do not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_ExportPackage\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage

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

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

##### Elements

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

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

###### ExportPackage

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

1. <xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelStruct:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**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**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). If the "LocalizedNames" value is specified the protocol server MUST retrieve the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects** from the specified **Setting** and if "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**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) as the localized names in the specified **Setting**. If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**. If the "Permissions" value is specified the protocol server MUST retrieve the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) 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.

###### ExportPackageResponse

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

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

**ExportPackageResult:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation conforming to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) for the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee), containing the specified data.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GenerateProxyAssemblyForLobSystem

This operation is used to force the protocol server to create an implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<34>](#Appendix_A_34" \o "Product behavior note 34) for the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to connect to the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem** this operation MUST NOT create another Business Logic Module and MUST complete successfully.

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

1. <wsdl:operation name="GenerateProxyAssemblyForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified LobSystem. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is 0. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage

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

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

##### Elements

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

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

###### GenerateProxyAssemblyForLobSystem

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

1. <xs:element name="GenerateProxyAssemblyForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GenerateProxyAssemblyForLobSystemResponse

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

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

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAccessControlEntries

This operation is used to retrieve the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**.

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

1. <wsdl:operation name="GetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage

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

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

##### Elements

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

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

###### GetAccessControlEntries

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

1. <xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to return the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) from.

**fallback:** Specifies whether to retrieve ACEs from the default **Setting** when ACEs do not exist in the specified **Setting**.

###### GetAccessControlEntriesResponse

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

1. <xs:element name="GetAccessControlEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAccessControlEntriesResult" nillable="true" type="q8:ArrayOfAccessControlEntryStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAccessControlEntriesResult:** The list of [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionById

This operation is used to retrieve the specified [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

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

1. <wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Action** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetActionById\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetActionById\_OutputMessage

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

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

##### Elements

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

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

###### GetActionById

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

1. <xs:element name="GetActionById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the Action.

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetActionByIdResponse

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

1. <xs:element name="GetActionByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionByIdResult" nillable="true" type="q8:ActionStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionByIdResult:** The [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionParameterById

This operation is used to retrieve the specified [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

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

1. <wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified ActionParameter does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage

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

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

##### Elements

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

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

###### GetActionParameterById

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

1. <xs:element name="GetActionParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**actionParameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

**performErrorCheck:** The value of this element MUST be ignored 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetActionParameterByIdResponse

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

1. <xs:element name="GetActionParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionParameterByIdResult" nillable="true" type="q8:ActionParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionParameterByIdResult:**  The [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionParametersForAction

This operation is used to retrieve the [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) of the specified [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

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

1. <wsdl:operation name="GetActionParametersForAction" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0.[<35>](#Appendix_A_35" \o "Product behavior note 35) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Action** does not exist.[<36>](#Appendix_A_36" \o "Product behavior note 36) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage

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

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

##### Elements

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

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

###### GetActionParametersForAction

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

1. <xs:element name="GetActionParametersForAction" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetActionParametersForActionResponse

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

1. <xs:element name="GetActionParametersForActionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionParametersForActionResult" nillable="true" type="q8:ArrayOfActionParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionParametersForActionResult:**  The list of [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) that are contained by the specified [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfActionParameterStruct** | Contains a list of **ActionParameters** for an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b). |

###### ArrayOfActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

1. <xs:complexType name="ArrayOfActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct" nillable="true" type="q8:ActionParameterStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ActionParameterStruct:**  An ActionParameter of an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionsForEntity

This operation is used to retrieve the [**Actions**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) of the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

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

1. <wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Entity** does not exist.[<37>](#Appendix_A_37" \o "Product behavior note 37) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage

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

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

##### Elements

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

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

###### GetActionsForEntity

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

1. <xs:element name="GetActionsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetActionsForEntityResponse

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

1. <xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionsForEntityResult" nillable="true" type="q8:ArrayOfActionStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionsForEntityResult:**  The list of [**Actions**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) that are contained by the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfActionStruct** | Contains a list of [**Actions**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b). |

###### ArrayOfActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of [**Actions**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b).

1. <xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true" type="q8:ActionStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ActionStruct:** An **Action** of an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllLocalizedNames

This operation is used to retrieve all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

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

1. <wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist.[<38>](#Appendix_A_38" \o "Product behavior note 38) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage

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

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

##### Elements

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

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

###### GetAllLocalizedNames

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

1. <xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to return the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) 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**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) exists for both the default **Setting** and the specified **Setting**, only the localized name from the specified **Setting** MUST be returned. |
| False | The protocol server MUST return the localized names only for the specified **Setting**. |

###### GetAllLocalizedNamesResponse

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

1. <xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesResult" nillable="true" type="q8:ArrayOfLocalizedNameStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllLocalizedNamesResult:** The list of [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllLocalizedNamesForMetadataObjectStruct

This operation is used to retrieve all the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

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

1. <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist.[<39>](#Appendix_A_39" \o "Product behavior note 39) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage

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

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

##### Elements

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

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

###### GetAllLocalizedNamesForMetadataObjectStruct

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

1. <xs:element name="GetAllLocalizedNamesForMetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) for which the operation will return the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) does not exist for the specified **Setting**. |
| False | The protocol server MUST return the localized names only for the specified **Setting**. |

###### GetAllLocalizedNamesForMetadataObjectStructResponse

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

1. <xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true" type="q8:ArrayOfLocalizedNameStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllLocalizedNamesForMetadataObjectStructResult:**  The list of [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllPartitionIds

This operation is deprecated from the protocol and MUST NOT be called.

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

1. <wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage

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

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

##### Elements

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

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

###### GetAllPartitionIds

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

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

###### GetAllPartitionIdsResponse

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

1. <xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q7:ArrayOfguid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPartitionIdsResult:** Deprecated.

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfguid** | Contains a list of GUID identifiers for partitions (1). |

###### ArrayOfguid

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

A complex type that specifies a list of [**GUIDs**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

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

**guid:**  The identifier of a [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75)**.**

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllProperties

This operation is used to retrieve all the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) and the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

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

1. <wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, and the specified **MetadataObject** is an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). | |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage

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

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

##### Elements

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

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

###### GetAllProperties

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

1. <xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to return the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) 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.

###### GetAllPropertiesResponse

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

1. <xs:element name="GetAllPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesResult" nillable="true" type="q8:ArrayOfPropertyStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPropertiesResult:** The list of **Properties**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllPropertiesForMetadataObjectStruct

This operation is used to retrieve all the Properties of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

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

1. <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, and the specified **MetadataObject** is an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage

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

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

##### Elements

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

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

###### GetAllPropertiesForMetadataObjectStruct

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

1. <xs:element name="GetAllPropertiesForMetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to return the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) 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.

###### GetAllPropertiesForMetadataObjectStructResponse

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

1. <xs:element name="GetAllPropertiesForMetadataObjectStructResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesForMetadataObjectStructResult" nillable="true" type="q8:ArrayOfPropertyStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPropertiesForMetadataObjectStructResult:** The list of [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationById

This operation is used to retrieve the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

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

1. <wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An **Association** with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationById

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

1. <xs:element name="GetAssociationById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationByIdResponse

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

1. <xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationByIdResult" nillable="true" type="q8:AssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationByIdResult:** The [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationGroupById

This operation is used to retrieve the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

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

1. <wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An AssociationGroup with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationGroupById

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

1. <xs:element name="GetAssociationGroupById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationGroupByIdResponse

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

1. <xs:element name="GetAssociationGroupByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupByIdResult" nillable="true" type="q8:AssociationGroupStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationGroupByIdResult:** The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationGroupsForEntity

This operation is used to retrieve the [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

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

1. <wsdl:operation name="GetAssociationGroupsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified **MetadataObjectId** is 0.[<40>](#Appendix_A_40" \o "Product behavior note 40) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An Entity with the specified **MetadataObjectId** does not exist.[<41>](#Appendix_A_41" \o "Product behavior note 41) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationGroupsForEntity

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

1. <xs:element name="GetAssociationGroupsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

**partitionId:** The [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationGroupsForEntityResponse

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

1. <xs:element name="GetAssociationGroupsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupsForEntityResult" nillable="true" type="q8:ArrayOfAssociationGroupStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationGroupsForEntityResult:** The list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationGroupStruct** | Contains a list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). |

###### ArrayOfAssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

1. <xs:complexType name="ArrayOfAssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct" nillable="true" type="q8:AssociationGroupStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationGroupStruct:** An **AssociationGroup**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationMembersInRole

This operation is used to retrieve the source or destination [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) of the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

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

1. <wsdl:operation name="GetAssociationMembersInRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero, or the value of the **role** parameter is not zero or 1. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Association** does not exist, or does not refer to any **Entities**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationMembersInRole

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

1. <xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

**role:** An **unsignedByte** value that specifies whether to return source or destination [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationMembersInRoleResponse

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

1. <xs:element name="GetAssociationMembersInRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationMembersInRoleResult" nillable="true" type="q8:ArrayOfAssociationMemberStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationMembersInRoleResult:** The list of source or destination [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationMemberStruct** | Contains a list of relationships between [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) and [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). |
| **AssociationMemberStruct** | Contains information about a specific relationship of an Entity and Association. |

###### ArrayOfAssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationships between [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) and [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61)**.**

1. <xs:complexType name="ArrayOfAssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct" nillable="true" type="q8:AssociationMemberStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationMemberStruct:** Contains information about the relationship between an Entity and an Association.

###### AssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) and an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

1. <xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
8. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
9. </xs:sequence>
10. </xs:complexType>

**\_entityName:** The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

**\_entityNamespace:** The namespace of the **Entity** that is referenced by the **Association**. If the Entity is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 Unicode characters.

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **Association** referencing the **Entity**. The value of this element MUST be in [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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**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**. |

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationReferencesForAssociationGroup

This operation is used to retrieve the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the specified [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

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

1. <wsdl:operation name="GetAssociationReferencesForAssociationGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified AssociationGroup does not exist. [<42>](#Appendix_A_42" \o "Product behavior note 42) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationReferencesForAssociationGroup

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

1. <xs:element name="GetAssociationReferencesForAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationReferencesForAssociationGroupResponse

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

1. <xs:element name="GetAssociationReferencesForAssociationGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationReferencesForAssociationGroupResult" nillable="true" type="q8:ArrayOfAssociationReferenceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationReferencesForAssociationGroupResult:** The list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). The [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each **AssociationReference** in the list MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationReferenceStruct** | Contains a list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). |

###### ArrayOfAssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type a list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).

1. <xs:complexType name="ArrayOfAssociationReferenceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationReferenceStruct:** An AssociationReference.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForDataClass

This operation is used to retrieve the [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) that are contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

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

1. <wsdl:operation name="GetAssociationsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **DataClass** does not exist.[<43>](#Appendix_A_43" \o "Product behavior note 43) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationsForDataClass

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

1. <xs:element name="GetAssociationsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). The value of this element MUST be in [1, 0x7fffffff] range.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationsForDataClassResponse

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

1. <xs:element name="GetAssociationsForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForDataClassResult" nillable="true" type="q8:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForDataClassResult:** The list of [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForEntityAndRole

This operation is used to retrieve the [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) that references the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) as **Association** source or **Association** destination.

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

1. <wsdl:operation name="GetAssociationsForEntityAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero, or the **role** parameter is not set to zero or 1. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Entity does not exist. [<44>](#Appendix_A_44" \o "Product behavior note 44) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationsForEntityAndRole

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

1. <xs:element name="GetAssociationsForEntityAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

**role:** Specifies whether the Entity is a source or the destination of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationsForEntityAndRoleResponse

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

1. <xs:element name="GetAssociationsForEntityAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForEntityAndRoleResult" nillable="true" type="q8:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForEntityAndRoleResult:** The list of [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForMethod

This operation is used to retrieve the [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) that are contained by the specified [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

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

1. <wsdl:operation name="GetAssociationsForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Method does not exist.[<45>](#Appendix_A_45" \o "Product behavior note 45) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage

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

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

##### Elements

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

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

###### GetAssociationsForMethod

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

1. <xs:element name="GetAssociationsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968). The value of this element MUST be in [1, 0x7fffffff] range.

**partitionId:** The [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetAssociationsForMethodResponse

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

1. <xs:element name="GetAssociationsForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForMethodResult" nillable="true" type="q8:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForMethodResult:** The list of [**Associations**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetCacheInvalidationRecordsSince

This operation is deprecated from the protocol and SHOULD NOT[<46>](#Appendix_A_46" \o "Product behavior note 46) be called.

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

1. <wsdl:operation name="GetCacheInvalidationRecordsSince" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage

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

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

##### Elements

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

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

###### GetCacheInvalidationRecordsSince

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

1. <xs:element name="GetCacheInvalidationRecordsSince" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**dateTime:** Deprecated.

###### GetCacheInvalidationRecordsSinceResponse

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

1. <xs:element name="GetCacheInvalidationRecordsSinceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetCacheInvalidationRecordsSinceResult" nillable="true" type="q8:ArrayOfCacheInvalidationRecordStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetCacheInvalidationRecordsSinceResult:** Deprecated.

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfCacheInvalidationRecordStruct** | Contains a cache version stamps. |
| **CacheInvalidationRecordStruct** | Contains information about the version stamps for the cache. |

###### ArrayOfCacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

1. <xs:complexType name="ArrayOfCacheInvalidationRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct" nillable="true" type="q8:CacheInvalidationRecordStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**CacheInvalidationRecordStruct:** Deprecated.

###### CacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

1. <xs:complexType name="CacheInvalidationRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
4. <xs:element minOccurs="0" name="counter" type="xs:int"/>
5. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
7. </xs:sequence>
8. </xs:complexType>

**cacheLine:** Deprecated.

**counter:** Deprecated.

**partitionId:** Deprecated.

**timestamp:** Deprecated.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetChildTypeDescriptorsForTypeDescriptor

This operation is used to retrieve the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the specified **TypeDescriptor**.

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

1. <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified TypeDescriptor does not exist.[<47>](#Appendix_A_47" \o "Product behavior note 47) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage

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

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

##### Elements

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

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

###### GetChildTypeDescriptorsForTypeDescriptor

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

1. <xs:element name="GetChildTypeDescriptorsForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parentTypeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetChildTypeDescriptorsForTypeDescriptorResponse

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

1. <xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetChildTypeDescriptorsForTypeDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

This operation is used to retrieve the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that reference [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) 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.[<48>](#Appendix_A_48" \o "Product behavior note 48)

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

1. <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **TypeDescriptor** is 0. [<49>](#Appendix_A_49" \o "Product behavior note 49) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **TypeDescriptor** does not exist.[<50>](#Appendix_A_50" \o "Product behavior note 50) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage

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

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

##### Elements

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

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

###### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

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

1. <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="typeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**typeDescriptorStruct:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

###### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

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

1. <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDataClassById

This operation is used to retrieve the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

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

1. <wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A DataClass with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage

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

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

##### Elements

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

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

###### GetDataClassById

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

1. <xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**performErrorCheck:** The value of this element MUST be ignored 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetDataClassByIdResponse

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

1. <xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDataClassByIdResult" nillable="true" type="q8:DataClassStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDataClassByIdResult:**  The [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDataClassesForSystem

This operation is used to retrieve [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

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

1. <wsdl:operation name="GetDataClassesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends **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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified LobSystem does not exist.[<51>](#Appendix_A_51" \o "Product behavior note 51) |

##### Messages

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

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

###### BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage

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

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

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

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

###### BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage

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

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

##### Elements

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

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

###### GetDataClassesForSystem

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

1. <xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

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

**activeOnly:**  Which [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetDataClassesForSystemResponse

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

1. <xs:element name="GetDataClassesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDataClassesForSystemResult" nillable="true" type="q8:ArrayOfDataClassStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDataClassesForSystemResult:** The list of [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

##### Complex Types

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

| Complex type | Description |
| --- | --- |
| **ArrayOfDataClassStruct** | Contains a list of [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). |

###### ArrayOfDataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

1. <xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true" type="q8:DataClassStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**DataClassStruct:**  A DataClass.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDefaultValuesForTypeDescriptor

This operation is used to retrieve the [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

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

1. <wsdl:operation name="GetDefaultValuesForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A TypeDescriptor with specified **MetadataObjectId** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDefaultValuesForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDefaultValuesForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetDefaultValuesForTypeDescriptor** | The input data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetDefaultValuesForTypeDescriptorResponse** | The result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation. |

###### GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDefaultValuesForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDefaultValuesForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDefaultValuesForTypeDescriptorResult" nillable="true" type="q8:ArrayOfDefaultValueStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDefaultValuesForTypeDescriptorResult:** The [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfDefaultValueStruct** | Contains a list of [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe). |

###### ArrayOfDefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

A complex type that specifies a list of [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe).

1. <xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true" type="q8:DefaultValueStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**DefaultValueStruct:** A **DefaultValue**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesForAssociationAndRole

This operation is used to retrieve the [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) performing the role of source or destination for the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesForAssociationAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | One of the following conditions applies:   * The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. * The **role** parameter is not set to zero or 1.[<52>](#Appendix_A_52" \o "Product behavior note 52) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Association does not exist.[<53>](#Appendix_A_53" \o "Product behavior note 53) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage** | The request WSDL message for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage** | The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForAssociationAndRole** element.

###### BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForAssociationAndRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesForAssociationAndRole** | The input data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesForAssociationAndRoleResponse** | The result data for the **GetEntitiesForAssociationAndRole** WSDL operation. |

###### GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForAssociationAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61).

**role:** Specifies what [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForAssociationAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q8:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesForAssociationAndRoleResult:** The list of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesForSystem

This operation is used to retrieve [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified LobSystem does not exist.[<54>](#Appendix_A_54" \o "Product behavior note 54) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** | The request WSDL message for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** | The response WSDL message for the **GetEntitiesForSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForSystem** element.

###### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesForSystem** | The input data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesForSystemResponse** | The result data for the **GetEntitiesForSystem** WSDL operation. |

###### GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**activeOnly:** This element MUST contain the information about what [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesForSystemResult" nillable="true" type="q8:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesForSystemResult:** The list of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesLikeNameAndNamespace

This operation is used to retrieve the [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **Entity** with [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesLikeNameAndNamespace" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * 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. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** | The request WSDL message for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** | The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesLikeNameAndNamespace** element.

###### BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesLikeNameAndNamespace** | The input data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesLikeNameAndNamespaceResponse** | The result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation. |

###### GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesLikeNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
7. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
8. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**wildcardedNamespace:** The wildcard pattern to be used to retrieve the [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) whose namespace matches the wildcard pattern.

Following is the ABNF for the **wildcardedNamespace**:

1. wildcardedNamespace = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. EscapeWildcard = %x5C %x2A

The protocol server MUST match the namespace of the **Entities** with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**wildcardedName:** The wildcard pattern to be used to retrieve the **Entities** whose name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern.

Following is the ABNF for the **wildcardedName**:

1. wildcardedName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. EscapeWildcard = %x5C %x2A

The protocol server MUST match the name or localized name of the **Entities** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesLikeNameAndNamespaceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q8:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesLikeNameAndNamespaceResult:** The list of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesReferencedByModelId

This operation is used to retrieve [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) which are referenced by the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesReferencedByModelId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Model does not exist.[<55>](#Appendix_A_55" \o "Product behavior note 55) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage** | The request WSDL message for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage** | The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesReferencedByModelId** element.

###### BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesReferencedByModelIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesReferencedByModelId** | The input data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesReferencedByModelIdResponse** | The result data for the **GetEntitiesReferencedByModelId** WSDL operation. |

###### GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesReferencedByModelId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" minOccurs="0" name="mode" type="tns3:EntityConstants.EntitiesInModelQuery"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**mode:** Specifies which [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be returned. The value of this element is specified in section [3.1.4.47.4.1](#Section_d210f6346c8346c68a0a3945d5329598).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesReferencedByModelIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q8:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesReferencedByModelIdResult:**  The list of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **EntityConstants.EntitiesInModelQuery** | Contains a list of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be returned. |

###### EntityConstants.EntitiesInModelQuery

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

Specifies which [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be returned.

1. <xs:simpleType name="EntityConstants.EntitiesInModelQuery" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="AllEntitiesInModel"/>
4. <xs:enumeration value="OwnedEntitiesInModel"/>
5. <xs:enumeration value="SharedEntitiesInModel"/>
6. </xs:restriction>
7. </xs:simpleType>

The following table specifies the allowable values for the **EntityConstants.EntitiesInModelQuery** simple type.

| Value | Meaning |
| --- | --- |
| AllEntitiesInModel | Return all **Entities** referenced by the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| OwnedEntitiesInModel | Returned **Entities** MUST be referenced only in the specified **Model**. |
| SharedEntitiesInModel | Returned **Entities** MUST be referenced in the specified **Model** and in other **Models**. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityById

This operation is used to retrieve the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An Entity with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** | The request WSDL message for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** | The response WSDL message for the **GetEntityById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityById** element.

###### BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityById** | The input data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityByIdResponse** | The result data for the **GetEntityById** WSDL operation. |

###### GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityByIdResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityByIdResult:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityCount

This operation retrieves the number of [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) elements that are contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCalatogSharedService\_GetEntityCount\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero. [<56>](#Appendix_A_56" \o "Product behavior note 56) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified LobSystem does not exist.[<57>](#Appendix_A_57" \o "Product behavior note 57) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage** | The request WSDL message for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage** | The response WSDL message for the **GetEntityCount** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityCount** element.

###### BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityCountResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityCount** | The input data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityCountResponse** | The result data for the **GetEntityCount** WSDL operation. |

###### GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityCountResult:** The number of [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) elements contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityNameAndNamespacesForAssociationAndRole

This operation is used to retrieve the names and namespaces of [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) which are referenced by the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61). Only **Entities** in the specified association **role** of source or destination are returned.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCalatogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Association does not exist. [<58>](#Appendix_A_58" \o "Product behavior note 58) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** | The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** | The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

###### BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityNameAndNamespacesForAssociationAndRole** | The input data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityNameAndNamespacesForAssociationAndRoleResponse** | The result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation. |

###### GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityNameAndNamespacesForAssociationAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) for which the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="namespaces" nillable="true" type="q7:ArrayOfstring"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="names" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**namespaces:** The namespaces of the [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that are referenced by the specified [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) 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**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityWithNameAndNamespace

This operation is used to retrieve the active [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) with the specified name and namespace in the specified [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityWithNameAndNamespace" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The specified namespace length exceeds 255 characters. * The specified name length exceeds 255 characters. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An active Entity with the specified namespace and name does not exist in the specified Partition. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage** | The request WSDL message for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage** | The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespace** element.

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityWithNameAndNamespace** | The input data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityWithNameAndNamespaceResponse** | The result data for the **GetEntityWithNameAndNamespace** WSDL operation. |

###### GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**namespace:** The namespace of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be returned.

**name:** The name of the **Entity** to be returned.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityWithNameAndNamespaceResult:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityWithNameAndNamespaceAndVersion

This operation is used to retrieve the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) with the specified name, namespace, and version.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The specified namespace length exceeds 255 characters. * The specified name length exceeds 255 characters. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An **Entity** with the specified namespace and name and version does not exist in the specified [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage** | The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** | The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceAndVersion** element.

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityWithNameAndNamespaceAndVersion** | The input data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityWithNameAndNamespaceAndVersionResponse** | The result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation. |

###### GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceAndVersion" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q2:Version"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**namespace:** The namespace of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q8:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityWithNameAndNamespaceAndVersionResult:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFieldTypeDescriptorsByMethodInstance

This operation is used to retrieve [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that correspond to [**fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with the specified name on the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The **MethodInstanceType** of the MethodInstance with the specified name on the specified Entity is not equal to any one of the following:   * Finder * SpecificFinder * IdEnumerator * ChangedIdEnumerator * DeletedIdEnumerator * BulkSpecificFinder * BulkAssociationNavigator * BulkIdEnumerator * Creator * Updater |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A **MethodInstance** with the specified name does not exist on the specified **Entity**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** | The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** | The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFieldTypeDescriptorsByMethodInstance** element.

###### BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFieldTypeDescriptorsByMethodInstance** | The input data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFieldTypeDescriptorsByMethodInstanceResponse** | The result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation. |

###### GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFieldTypeDescriptorsByMethodInstance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodInstanceName:** The name of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**entityStruct:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

###### GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFieldTypeDescriptorsByMethodInstanceResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFilterDescriptorById

This operation is used to retrieve the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A FilterDescriptor with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** | The request WSDL message for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** | The response WSDL message for the **GetFilterDescriptorById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorById** element.

###### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFilterDescriptorById** | The input data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFilterDescriptorByIdResponse** | The result data for the **GetFilterDescriptorById** WSDL operation. |

###### GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**filterDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

**performErrorCheck:** The value of this element MUST be ignored 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFilterDescriptorByIdResult" nillable="true" type="q8:FilterDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFilterDescriptorByIdResult:** The [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) that was returned.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFilterDescriptorsForMethod

This operation is used to retrieve the [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) contained by the specified [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFilterDescriptorsForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the Method is 0.[<59>](#Appendix_A_59" \o "Product behavior note 59) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A **Method** with the specified **MetadataObjectId** does not exist.[<60>](#Appendix_A_60" \o "Product behavior note 60) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage** | The request WSDL message for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage** | The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorsForMethod** element.

###### BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorsForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFilterDescriptorsForMethod** | The input data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFilterDescriptorsForMethodResponse** | The result data for the **GetFilterDescriptorsForMethod** WSDL operation. |

###### GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) for which the [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) are obtained.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorsForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFilterDescriptorsForMethodResult" nillable="true" type="q8:ArrayOfFilterDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFilterDescriptorsForMethodResult:** The list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfFilterDescriptorStruct** | Contains a list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |

###### ArrayOfFilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

1. <xs:complexType name="ArrayOfFilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct" nillable="true" type="q8:FilterDescriptorStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**FilterDescriptorStruct:**  A FilterDescriptor of a [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetIdentifierById

This operation is used to retrieve the [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An Identifier with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage** | The request WSDL message for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage** | The response WSDL message for the **GetIdentifierById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifierById** element.

###### BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifierByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetIdentifierById** | The input data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetIdentifierByIdResponse** | The result data for the **GetIdentifierById** WSDL operation. |

###### GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**identifierId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetIdentifierByIdResponse

The **GetIdentifierByIdResponse** element specifies the result data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifierByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetIdentifierByIdResult" nillable="true" type="q8:IdentifierStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetIdentifierByIdResult:** The [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) that was returned.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetIdentifiersForEntity

This operation is used to retrieve the [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) contained by the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the Entity is 0.[<61>](#Appendix_A_61" \o "Product behavior note 61) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An **Entity** with the specified **MetadataObjectId** does not exist.[<62>](#Appendix_A_62" \o "Product behavior note 62) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** | The request WSDL message for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** | The response WSDL message for the **GetIdentifiersForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifiersForEntity** element.

###### BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifiersForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetIdentifiersForEntity** | The input data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetIdentifiersForEntityResponse** | The result data for the **GetIdentifiersForEntity** WSDL operation. |

###### GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) for which the [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) are obtained.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifiersForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetIdentifiersForEntityResult" nillable="true" type="q8:ArrayOfIdentifierStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetIdentifiersForEntityResult:** The list of [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfIdentifierStruct** | Contains a list of [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2). |

###### ArrayOfIdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of [**Identifiers**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2).

1. <xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true" type="q8:IdentifierStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**IdentifierStruct:**  An Identifier of an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetImportProgress

This operation is used to retrieve the progress of an [**ImportPackageWithProgress**](#Section_6f501ddbd9da442cacad613169aa33b7) operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** | The request WSDL message for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** | The response WSDL message for the **GetImportProgress** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetImportProgress** element.

###### BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetImportProgressResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetImportProgress** | The input data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetImportProgressResponse** | The result data for the **GetImportProgress** WSDL operation. |

###### GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="jobId" type="ser:guid"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**jobId:** The identifier of the import operation for which the progress is to be retrieved.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetImportProgressResult:** The fraction of the operation that is finished. The value MUST be between 0 and 1 inclusive. The value MUST be 0 if **jobId** is not recognized as a current import job.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLevelForTypeDescriptor

This operation retrieves the depth of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLevelForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **TypeDescriptor** is 0.[<63>](#Appendix_A_63" \o "Product behavior note 63) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One of the following conditions applies:   * The specified **TypeDescriptor** does not exist.[<64>](#Appendix_A_64" \o "Product behavior note 64) * The specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree and the parent of the specified **TypeDescriptor** does not exist. * An ancestor of the specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree that contains the specified **TypeDescriptor** and the parent of the ancestor does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetLevelForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLevelForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLevelForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLevelForTypeDescriptor** | The input data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLevelForTypeDescriptorResponse** | The result data for the **GetLevelForTypeDescriptor** WSDL operation. |

###### GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="typeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**typeDescriptorStruct:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

###### GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLevelForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult" type="xs:unsignedInt"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLevelForTypeDescriptorResult:** The depth of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemAllAssembliesBytes

This operation is used to retrieve the [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66), 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.[<65>](#Appendix_A_65" \o "Product behavior note 65)

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemAllAssembliesBytes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read the specified **LobSystem**.[<66>](#Appendix_A_66" \o "Product behavior note 66) |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is 0. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage** | The request WSDL message for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage** | The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemAllAssembliesBytes** element.

###### BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemAllAssembliesBytesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemAllAssembliesBytes** | The input data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemAllAssembliesBytesResponse** | The result data for the **GetLobSystemAllAssembliesBytes** WSDL operation. |

###### GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemAllAssembliesBytes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemAllAssembliesBytesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true" type="q7:ArrayOfbase64Binary"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemAllAssembliesBytesResult:** The list of [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). If the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) is not associated with any Business Logic Module, this element MUST NOT be present.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfbase64Binary** | Contains an array of elements, each containing encoded data. |

###### 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**](#gt_179b9392-9019-45a3-880b-26f6890522b7).

1. <xs:complexType name="ArrayOfbase64Binary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true" type="xs:base64Binary"/>
4. </xs:sequence>
5. </xs:complexType>

**base64Binary:** Data encoded with base64 encoding.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemById

This operation retrieves the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** response message, unless any one of the conditions in the following table is met. If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions applies:   * The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId. * An LobSystem with the specified MetadataObjectId does not exist and the value of the **performErrorCheck** element is "false".[<67>](#Appendix_A_67" \o "Product behavior note 67) |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified **MetadataObjectId** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An **LobSystem** with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** | The request WSDL message for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** | The response WSDL message for the **GetLobSystemById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemById** element.

###### BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemById** | The input data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemByIdResponse** | The result data for the **GetLobSystemById** WSDL operation. |

###### GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that will be retrieved.

**performErrorCheck:** The value of this element MUST be ignored if an **LobSystem** with the specified **MetadataObjectId** exists.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemByIdResult" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemByIdResult:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **LobSystem** MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemByName

This operation is used to retrieve the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The security principal (2) in whose context the protocol client is operating is not authorized to read[<68>](#Appendix_A_68" \o "Product behavior note 68) the specified LobSystem. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The specified name length exceeds 255 characters. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **LobSystem** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** | The request WSDL message for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** | The response WSDL message for the **GetLobSystemByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByName** element.

###### BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemByName** | The input data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemByNameResponse** | The result data for the **GetLobSystemByName** WSDL operation. |

###### GetLobSystemByName

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**name:** The name of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemByNameResult" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemByNameResult:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) with the specified name.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemDataByLobSystem

This operation is used to retrieve [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<69>](#Appendix_A_69" \o "Product behavior note 69) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemDataByLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read the specified LobSystem.[<70>](#Appendix_A_70" \o "Product behavior note 70) |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is 0.[<71>](#Appendix_A_71" \o "Product behavior note 71) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **LobSystem** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** | The request WSDL message for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** | The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemDataByLobSystem** element.

###### BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemDataByLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemDataByLobSystem** | The input data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemDataByLobSystemResponse** | The result data for the **GetLobSystemDataByLobSystem** WSDL operation. |

###### GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemDataByLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true" type="tns2:ProxyGenerationResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemDataByLobSystemResult:** The information about the [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<72>](#Appendix_A_72" \o "Product behavior note 72) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemInstanceById

This operation is used to retrieve the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions applies:   * The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId. * An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the **performErrorCheck** element is "false".[<73>](#Appendix_A_73" \o "Product behavior note 73) |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified **MetadataObjectId** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | An **LobSystemInstance** with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** | The request WSDL message for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** | The response WSDL message for the **GetLobSystemInstanceById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstanceById** element.

###### BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstanceByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemInstanceById** | The input data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemInstanceByIdResponse** | The result data for the **GetLobSystemInstanceById** WSDL operation. |

###### GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemInstanceId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

**performErrorCheck:** The value of this element MUST be ignored if a **LobSystemInstance** with the specified **MetadataObjectId** exists.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemInstanceByIdResult" nillable="true" type="q8:LobSystemInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemInstanceByIdResult:** The [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemInstancesForLobSystem

This operation is used to retrieve the list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). Only the **LobSystemInstances** that the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to read[<74>](#Appendix_A_74" \o "Product behavior note 74) are returned.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemInstancesForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. [<75>](#Appendix_A_75" \o "Product behavior note 75) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified LobSystem does not exist. [<76>](#Appendix_A_76" \o "Product behavior note 76) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** | The request WSDL message for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** | The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstancesForLobSystem** element.

###### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstancesForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemInstancesForLobSystem** | The input data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemInstancesForLobSystemResponse** | The result data for the **GetLobSystemInstancesForLobSystem** WSDL operation. |

###### GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstancesForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemInstancesForLobSystemResponse

The **GetLobSystemInstancesForLobSystemResponse** element specifies the result data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstancesForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemInstancesForLobSystemResult" nillable="true" type="q8:ArrayOfLobSystemInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemInstancesForLobSystemResult:** The list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfLobSystemInstanceStruct** | Contains a list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |

###### ArrayOfLobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type is a list of complex types, each of which represents an [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

1. <xs:complexType name="ArrayOfLobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct" nillable="true" type="q8:LobSystemInstanceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**LobSystemInstanceStruct:** A complex type that represents an **LobSystemInstance**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemProxyAssemblyBytesByLobSystemId

This operation is used to retrieve the implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<77>](#Appendix_A_77" \o "Product behavior note 77)** associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read[<78>](#Appendix_A_78" \o "Product behavior note 78) the specified LobSystem. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified LobSystem is 0. |
| **InvalidMetadataPropertyExceptionState** (section [2.2.4.37](#Section_d997eb6e9466485b877e897f37a10736)) | The specified LobSystem has an invalid value for the [**Property**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) named "SystemUtilityTypeName". The validity of this Property is specified in section [3.1.4.82.2.2](#Section_07b20898d80c41caac2e508256eed152). |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified LobSystem does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** | The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** | The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

###### BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemProxyAssemblyBytesByLobSystemId** | The input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** | The result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation. |

###### GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to retrieve the implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) from.

###### GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult" nillable="true" type="xs:base64Binary"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemProxyAssemblyBytesByLobSystemIdResult:** The bytes of the implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<79>](#Appendix_A_79" \o "Product behavior note 79) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the bytes of the first defined Business Logic Module as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.23. If no Business Logic Module is found for the specified **LobSystem**, this element MUST be NULL.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemsLikeName

This operation is used to retrieve the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that match the specified wildcard pattern that the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to read.[<80>](#Appendix_A_80" \o "Product behavior note 80)

An **LobSystem** matches the wildcard pattern specified by **searchLikeName** if and only if **searchLikeName** matches the name of the **LobSystem**, or the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **LobSystem** with [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 0, or the localized name of the **LobSystem** with the LCID specified by **callerCultureLcid**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The length of the specified wildcard pattern exceeds 255 characters. * The format of the specified wildcard pattern is invalid. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** | The request WSDL message for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** | The response WSDL message for the **GetLobSystemsLikeName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsLikeName** element.

###### BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsLikeNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemsLikeName** | The input data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemsLikeNameResponse** | The result data for the **GetLobSystemsLikeName** WSDL operation. |

###### GetLobSystemsLikeName

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**searchLikeName:** The wildcard pattern to be used to retrieve the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) whose name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern. Following is the ABNF for the **searchLikeName**:

1. searchLikeName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. EscapeWildcard = %x5C %x2A

The protocol server MUST match the name or localized name of the **LobSystems** with the value of **searchLikeName** when the EscapeBackSlash, EscapeWildcard and Wildcard rules are changed as follows:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the **LobSystems**.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemsLikeNameResult" nillable="true" type="q8:ArrayOfLobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemsLikeNameResult:** The list of [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemsReferencedByEntitiesAssociatedWithModel

This operation is used to retrieve the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to read[<81>](#Appendix_A_81" \o "Product behavior note 81) that are referenced by [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) associated with the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0.[<82>](#Appendix_A_82" \o "Product behavior note 82) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Model does not exist.[<83>](#Appendix_A_83" \o "Product behavior note 83) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** | The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** | The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

###### BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModel** | The input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** | The result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation. |

###### GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" minOccurs="0" name="queryMode" type="tns3:LobSystemConstants.LobSystemsInModelQuery"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**queryMode:** The mode which specifies the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to be retrieved. The value MUST be an **LobSystemConstants.LobSystemsInModelQuery** (section [3.1.4.68.4.1](#Section_2c508859908543a2b3199f1225b3584a)).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true" type="q8:ArrayOfLobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemsReferencedByEntitiesAssociatedWithModelResult:** The list of [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **LobSystemConstants.LobSystemsInModelQuery** | Specifics the mode in which to retrieve [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). |

###### LobSystemConstants.LobSystemsInModelQuery

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode which determines the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to be retrieved.

1. <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="AllLobSystemsInModel"/>
4. <xs:enumeration value="OwnedLobSystemsInModel"/>
5. <xs:enumeration value="SharedLobSystemsInModel"/>
6. </xs:restriction>
7. </xs:simpleType>

The following table specifies the allowable values for the **LobSystemConstants.LobSystemsInModelQuery** simple type.

| Value | Meaning |
| --- | --- |
| AllLobSystemsInModel | All **LobSystems** referenced by the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| OwnedLobSystemsInModel | **LobSystems** referenced only by the specified **Model**. The returned **LobSystems** MUST NOT include **LobSystems** that are referenced by other **Models**. |
| SharedLobSystemsInModel | **LobSystems** referenced by the specified **Model** and by other **Models**. The returned **LobSystems** MUST NOT include **LobSystems** that are referenced only by the specified **Model**. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodById

This operation is used to retrieve the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A Method with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodById\_InputMessage** | The request WSDL message for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage** | The response WSDL message for the **GetMethodById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodById** element.

###### BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodById** | The input data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodByIdResponse** | The result data for the **GetMethodById** WSDL operation. |

###### GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodByIdResult" nillable="true" type="q8:MethodStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodByIdResult:** The [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstanceById

This operation is used to retrieve the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A MethodInstance with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** | The request WSDL message for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** | The response WSDL message for the **GetMethodInstanceById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstanceById** element.

###### BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstanceByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstanceById** | The input data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstanceByIdResponse** | The result data for the **GetMethodInstanceById** WSDL operation. |

###### GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**methodInstanceId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstanceByIdResult" nillable="true" type="q8:MethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstanceByIdResult:** The [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstancesForDataClass

This operation is used to retrieve the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstancesForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified DataClass does not exist. [<84>](#Appendix_A_84" \o "Product behavior note 84) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** | The request WSDL message for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** | The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForDataClass** element.

###### BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForDataClassResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstancesForDataClass** | The input data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstancesForDataClassResponse** | The result data for the **GetMethodInstancesForDataClass** WSDL operation. |

###### GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetMethodInstancesForDataClassResponse

The **GetMethodInstancesForDataClassResponse** element specifies the result data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstancesForDataClassResult" nillable="true" type="q8:ArrayOfMethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstancesForDataClassResult:** The list of [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstancesForMethod

This operation is used to retrieve the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the specified [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstancesForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Method does not exist. [<85>](#Appendix_A_85" \o "Product behavior note 85) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** | The request WSDL message for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** | The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForMethod** element.

###### BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstancesForMethod** | The input data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstancesForMethodResponse** | The result data for the **GetMethodInstancesForMethod** WSDL operation. |

###### GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstancesForMethodResult" nillable="true" type="q8:ArrayOfMethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstancesForMethodResult:** The list of [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodsForDataClass

This operation is used to retrieve the [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. [<86>](#Appendix_A_86" \o "Product behavior note 86) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified DataClass does not exist. [<87>](#Appendix_A_87" \o "Product behavior note 87) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage** | The request WSDL message for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage** | The response WSDL message for the **GetMethodsForDataClass** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodsForDataClass** element.

###### BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodsForDataClassResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodsForDataClass** | The input data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodsForDataClassResponse** | The result data for the **GetMethodsForDataClass** WSDL operation. |

###### GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodsForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodsForDataClassResult" nillable="true" type="q8:ArrayOfMethodStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodsForDataClassResult:** The list of [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfMethodStruct** | Contains a list of [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968). |

###### ArrayOfMethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of [**Methods**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

1. <xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true" type="q8:MethodStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**MethodStruct:** The element contains information about a Method.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelById

This operation is used to retrieve the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A Model with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelById\_InputMessage** | The request WSDL message for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelById\_OutputMessage** | The response WSDL message for the **GetModelById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelById** element.

###### BusinessDataCatalogSharedService\_GetModelById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelById** | The input data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelByIdResponse** | The result data for the **GetModelById** WSDL operation. |

###### GetModelById

The **GetModelById** element specifies the input data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelByIdResult" nillable="true" type="q8:ModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelByIdResult:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelByName

This operation is used to retrieve the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The length of the specified name exceeds 255 characters. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Model does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** | The request WSDL message for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** | The response WSDL message for the **GetModelByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByName** element.

###### BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelByName** | The input data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelByNameResponse** | The result data for the **GetModelByName** WSDL operation. |

###### GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**name:** The name of the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**partitionId:** The [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetModelByNameResponse

The **GetModelByNameResponse** element specifies the result data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelByNameResult" nillable="true" type="q8:ModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelByNameResult:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelsByEntityId

This operation is used to retrieve the [**Models**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) that reference the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Entity does not exist. [<88>](#Appendix_A_88" \o "Product behavior note 88) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** | The request WSDL message for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** | The response WSDL message for the **GetModelsByEntityId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByEntityId** element.

###### BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByEntityIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelsByEntityId** | The input data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelsByEntityIdResponse** | The result data for the **GetModelsByEntityId** WSDL operation. |

###### GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetModelsByEntityIdResponse

The **GetModelsByEntityIdResponse** element specifies the result data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByEntityIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelsByEntityIdResult" nillable="true" type="q8:ArrayOfModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelsByEntityIdResult:** The list of [**Models**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelsByName

This operation is used to retrieve the [**Models**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **Model** with [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 0, or the localized name of the **Model** with the LCID specified by **callerCultureLcid**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The length of the specified wildcard pattern exceeds 255 characters. * The format of the specified wildcard pattern is invalid. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** | The request WSDL message for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** | The response WSDL message for the **GetModelsByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByName** element.

###### BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelsByName** | The input data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelsByNameResponse** | The result data for the **GetModelsByName** WSDL operation. |

###### GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**wildcardedName:** The wildcard pattern to be used to retrieve the [**Models**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) whose name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern. Following is the ABNF for the **wildcardedName**:

1. wildcardedName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. EscapeWildcard = %x5C %x2A

The protocol server MUST match the name or localized name of the **Models** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the Models.

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelsByNameResult" nillable="true" type="q8:ArrayOfModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelsByNameResult:** The list of [**Models**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetParameterById

This operation is used to retrieve the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataobjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A Parameter with the specified **MetadataObjectId** does not exist and the value of **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** | The request WSDL message for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** | The response WSDL message for the **GetParameterById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetParameterById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParameterById** element.

###### BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParameterByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetParameterById** | The input data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetParameterByIdResponse** | The result data for the **GetParameterById** WSDL operation. |

###### GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**performErrorCheck:** The value of this element MUST be ignored 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetParameterByIdResponse

The **GetParameterByIdResponse** element specifies the result data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetParameterByIdResult" nillable="true" type="q8:ParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetParameterByIdResult:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetParametersForMethod

This operation is used to retrieve the [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) of the specified [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0.[<89>](#Appendix_A_89" \o "Product behavior note 89) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Method does not exist.[<90>](#Appendix_A_90" \o "Product behavior note 90) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** | The request WSDL message for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** | The response WSDL message for the **GetParametersForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParametersForMethod** element.

###### BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParametersForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetParametersForMethod** | The input data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetParametersForMethodResponse** | The result data for the **GetParametersForMethod** WSDL operation. |

###### GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParametersForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetParametersForMethodResult" nillable="true" type="q8:ArrayOfParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetParametersForMethodResult:** The list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfParameterStruct** | Contains a list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |

###### ArrayOfParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

1. <xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true" type="q8:ParameterStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ParameterStruct:** A Parameter.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetRootTypeDescriptorForParameter

This operation is used to retrieve the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetRootTypeDescriptorForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified Parameter does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage** | The request WSDL message for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage** | The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRootTypeDescriptorForParameter** element.

###### BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRootTypeDescriptorForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetRootTypeDescriptorForParameter** | The input data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetRootTypeDescriptorForParameterResponse** | The result data for the **GetRootTypeDescriptorForParameter** WSDL operation. |

###### GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRootTypeDescriptorForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRootTypeDescriptorForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetRootTypeDescriptorForParameterResult" nillable="true" type="q8:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetRootTypeDescriptorForParameterResult:** The [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetServiceApplicationId

This operation is used to retrieve the unique implementation-specific identifier of [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** | The request WSDL message for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** | The response WSDL message for the **GetServiceApplicationId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetServiceApplicationId** element.

###### BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetServiceApplicationIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetServiceApplicationId** | The input data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetServiceApplicationIdResponse** | The result data for the **GetServiceApplicationId** WSDL operation. |

###### GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

###### GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetServiceApplicationIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetServiceApplicationIdResult:** The unique implementation-specific identifier of [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The value of the identifier MUST be a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetSystemUtilityTypeNameForLobSystem

This operation is used to retrieve the implementation-specific identifier of the module that executes operations in the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) corresponding to the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The module cannot be found or loaded. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. |
| **InvalidMetadataPropertyExceptionState** (section [2.2.4.37](#Section_d997eb6e9466485b877e897f37a10736)) | The specified LobSystem has an invalid value for the [**Property**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) named "SystemUtilityTypeName". Validity of this **Property** is specified in section [3.1.4.82.2.2](#Section_07b20898d80c41caac2e508256eed152). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** | The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** | The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSystemUtilityTypeNameForLobSystem** element.

###### BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetSystemUtilityTypeNameForLobSystem** | The input data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetSystemUtilityTypeNameForLobSystemResponse** | The result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation. |

###### GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSystemUtilityTypeNameForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GetSystemUtilityTypeNameForLobSystemResponse

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSystemUtilityTypeNameForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetSystemUtilityTypeNameForLobSystemResult:** The implementation-specific[<91>](#Appendix_A_91" \o "Product behavior note 91) identifier of the module that executes operations in the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorById

This operation is used to retrieve the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding server error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified MetadataObjectId is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | A TypeDescriptor with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** | The request WSDL message for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorById** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorById** | The input data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorByIdResponse** | The result data for the **GetTypeDescriptorById** WSDL operation. |

###### GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**performErrorCheck:** The value of this element MUST be ignored 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**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorByIdResult" nillable="true" type="q8:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorByIdResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorsByNameAndLevelForParameter

This operation SHOULD[<92>](#Appendix_A_92" \o "Product behavior note 92) retrieve the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the specified name and level contained by the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). The level of a **TypeDescriptor** is defined as follows:

* The level of the root **TypeDescriptor** is 0.
* The level of specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | One of the following conditions applies:   * The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is 0. * The specified level is less than 0. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage** | The request WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorsByNameAndLevelForParameter** | The input data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorsByNameAndLevelForParameterResponse** | The result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation. |

###### GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsByNameAndLevelForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="level" type="xs:int"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**name:** The name of the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that are retrieved.

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**level:** The level of the TypeDescriptors that are retrieved. [<93>](#Appendix_A_93" \o "Product behavior note 93)

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorsByNameAndLevelForParameterResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorsForFilterDescriptor

This operation is used to retrieve [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) referenced by the specified [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **FilterDescriptor** is 0. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** | The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsForFilterDescriptor** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorsForFilterDescriptor** | The input data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorsForFilterDescriptorResponse** | The result data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation. |

###### GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsForFilterDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**filterDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### GetTypeDescriptorsForFilterDescriptorResponse

The **GetTypeDescriptorsForFilterDescriptorResponse** element specifies the result data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsForFilterDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorsForFilterDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that are referenced by the specified [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeReflectorTypeNameForParameter

This operation is used to retrieve the implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeReflectorTypeNameForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Parameter** is 0. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** | The request WSDL message for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** | The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeReflectorTypeNameForParameter** element.

###### BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeReflectorTypeNameForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeReflectorTypeNameForParameter** | The input data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeReflectorTypeNameForParameterResponse** | The result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation. |

###### GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeReflectorTypeNameForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q8:ParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) for which the type name of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) will be retrieved.

###### GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeReflectorTypeNameForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeReflectorTypeNameForParameterResult:** The implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetXmlSchemaForView

This operation is used to retrieve an [**XML schema definition (XSD)**](#gt_c7e91c99-e45a-44c2-a08a-c34f137a2cae) that specifies a data structure that can store the data corresponding to a [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) that corresponds to the specified [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). The resulting XSD MUST conform to [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610). The following types of **MethodInstance** have a **View** corresponding to them:

* [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c)
* [**BulkSpecificFinder**](#gt_47a83bff-2845-46da-8fdd-91824b8302fc)
* [**Finder**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0)
* [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c)
* [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70)
* [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533)
* [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4)
* [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4)
* [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066)
* [**Creator**](#gt_559fbe4b-eff9-4c6b-8d3e-f42817fcc377)
* [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed)

The MethodInstances of any other type do not have a View associated with them.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The specified MethodInstance does not have a **View**.[<94>](#Appendix_A_94" \o "Product behavior note 94) |
| **ArgumentNullException** (section [2.2.4.8](#Section_6028c72bd1494562ae63747224e7879a)) | The specified **MethodInstance** does not have a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) and it is not an Updater or a Creator. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) is greater than 0x7fffffff. |
| **BdcExceptionState** (section [2.2.4.25](#Section_74cdd9625a6c465ead9003b4dc242944)) | The specified **MethodInstance** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage** | The request WSDL message for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage** | The response WSDL message for the **GetXmlSchemaForView** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetXmlSchemaForView** element.

###### BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetXmlSchemaForViewResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetXmlSchemaForView** | The input data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetXmlSchemaForViewResponse** | The result data for the **GetXmlSchemaForView** WSDL operation. |

###### GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="methodInstanceStruct" nillable="true" type="q8:MethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**methodInstanceStruct:** The [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

###### GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetXmlSchemaForViewResult:** A string that contains the resulting [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067). The XML schema MUST conform to [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610). The [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) specified by the XML schema is implementation-specific[<95>](#Appendix_A_95" \o "Product behavior note 95). The XML schema MUST specify the [**root element**](#gt_95422012-9f75-49c9-b80c-e190eee929d3) that corresponds to the [**View**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8). The name the root element MUST be equal to the name of the **View**. The root element MUST contain exactly one [**XML element**](#gt_a364f92c-0374-4568-b7f8-40bd74437dd5) for each of the [**fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the **View**. The XML element is declared based on the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that correspond to fields. 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**](#gt_ff9674b8-e5a4-4817-8b66-5cdf367f9fb2) 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**](#gt_c379fc5a-ed5c-4bce-b383-8d25539f225a), 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]](https://go.microsoft.com/fwlink/?LinkId=90604) 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**](#gt_443ac078-f0d2-45a2-ad6b-5967d61ff506) 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.[<96>](#Appendix_A_96" \o "Product behavior note 96)

* 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**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2), and the **TypeDescriptor** references an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61), 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**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423), 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**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the localized name as the value.
* If the **TypeDescriptor** has a [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) for the specified [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), 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.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### HaveRights

The **HaveRights** operation retrieves whether the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating has the specified permission on the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) based on the permissions specified by the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) associated with the specified **MetadataObject**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="HaveRights" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse" message="tns:BusinessDataCatalogSharedService\_HaveRights\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified MetadataObject is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** | The request WSDL message for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** | The response WSDL message for the **HaveRights** WSDL operation. |

###### BusinessDataCatalogSharedService\_HaveRights\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **HaveRights** element.

###### BusinessDataCatalogSharedService\_HaveRights\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **HaveRightsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **HaveRights** | The input data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **HaveRightsResponse** | The result data for the **HaveRights** WSDL operation. |

###### HaveRights

The **HaveRights** element specifies the input data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" minOccurs="0" name="rights" type="q1:BdcRights"/>
6. <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

**rights:** The permission to check.

**fallBack:** When the value of this element is **true**, the protocol server MUST use the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the default [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**.

###### HaveRightsResponse

The **HaveRightsResponse** element specifies the result data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="HaveRightsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**HaveRightsResult:** If the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating has the specified permissions, this value MUST be set to TRUE. Otherwise, this value MUST be set to FALSE.

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **BdcRights** | Specifies the permission given a [**security principal (1)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) on a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). |

###### BdcRights

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) can have on a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

1. <xs:simpleType name="BdcRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="Execute"/>
7. <xs:enumeration value="Edit"/>
8. <xs:enumeration value="SetPermissions"/>
9. <xs:enumeration value="UseInBusinessDataInLists"/>
10. <xs:enumeration value="SelectableInClients"/>
11. </xs:restriction>
12. </xs:simpleType>
13. </xs:list>
14. </xs:simpleType>

The following table specifies the allowable values for the **BdcRights** simple type.

| Value | Meaning |
| --- | --- |
| None | No permissions. |
| Execute | The security principal (2) has the permission to call a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| Edit | The security principal (2) has permission to change the attributes of a **MetadataObject** or its relationship to other **MetadataObjects**. |
| SetPermissions | The security principal (2) has permission to change the set of permissions for a **MetadataObject**. |
| UseInBusinessDataInLists | This value is obsolete and MUST NOT be used. |
| SelectableInClients | The security principal (2) has permission to select the **MetadataObject** this permission refers to in an implementation-specific user interface from a list of available **MetadataObjects**. If the security principal (2) does not have this permission, the **MetadataObject** SHOULD NOT be presented in such a list. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ImportPackage

This operation is used to create the following objects in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their properties, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the **MetadataModel** contains an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem** along with properties, localized names and ACEs of the ignored MetadataObjects. If the **MetadataModel** contains an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ImportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to create or modify the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * The "Model" value is specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. * The "Model" value is not specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28. * The value of the **updateModel** element is "false", the "Model" value is specified for **packageContents** element and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). * 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**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb)of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains MethodInstance, and the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) for which this **MethodInstance** is being created does not have a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values:   + AccessChecker   + AssociationNavigator   + Associator   + BinarySecurityDescriptorAccessor   + BulkAssociatedIdEnumerator   + BulkAssociationNavigator   + BulkIdEnumerator   + BulkSpecificFinder   + ChangedIdEnumerator   + DeletedIdEnumerator   + Deleter   + Disassociator   + SpecificFinder   + Updater   + StreamAccessor * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values:   + ChangedIdEnumerator   + DeletedIdEnumerator |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** | The request WSDL message for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** | The response WSDL message for the **ImportPackage** WSDL operation. |

###### BusinessDataCatalogSharedService\_ImportPackage\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackage** element.

###### BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ImportPackage** | The input data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ImportPackageResponse** | The result data for the **ImportPackage** WSDL operation. |

###### ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="adminStruct" nillable="true" type="q8:AdministrationMetadataCatalogStruct"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

* If the "Model" value is specified, this operation MUST create [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The protocol server MUST set all the [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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](#Section_f7b5c3e001f247659dae6bb9fa9d809c), 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**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) for the **MetadataObject**, the Property in the metadata store MUST be replaced.

* If the "Properties" value is not specified the protocol server MUST ignore Properties in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified the protocol server MUST create the specified [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) in the specified Setting for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
* If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified the protocol server MUST delete [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
* If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**adminStruct:** The [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) 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.

###### ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ImportPackageResult" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ImportPackageResult:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that is corresponding to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ImportPackageWithProgress

This operation is used to create the following objects in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the **MetadataModel** contains an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem** along with properties, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ImportPackageWithProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to create or modify the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f). |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * The "Model" value is specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. * The "Model" value is not specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28. * The value of the **updateModel** element is "false", the "Model" value is specified for **packageContents** element and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). * 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**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb)of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor and the TypeDescriptor containing the ReturnTypeDescriptor of this [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains **MethodInstance**, and the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) for which this **MethodInstance** is being created does not have a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values:   + AccessChecker   + AssociationNavigator   + Associator   + BinarySecurityDescriptorAccessor   + BulkAssociatedIdEnumerator   + BulkAssociationNavigator   + BulkIdEnumerator   + BulkSpecificFinder   + ChangedIdEnumerator   + DeletedIdEnumerator   + Deleter   + Disassociator   + SpecificFinder   + Updater   + StreamAccessor * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values:   + ChangedIdEnumerator   + DeletedIdEnumerator |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** | The request WSDL message for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** | The response WSDL message for the **ImportPackageWithProgress** WSDL operation. |

###### BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageWithProgress** element.

###### BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageWithProgressResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ImportPackageWithProgress** | The input data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ImportPackageWithProgressResponse** | The result data for the **ImportPackageWithProgress** WSDL operation. |

###### ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="adminStruct" nillable="true" type="q8:AdministrationMetadataCatalogStruct"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
10. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="jobId" type="ser:guid"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the **MetadataModel** that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

* If the "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](#Section_f7b5c3e001f247659dae6bb9fa9d809c), 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**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
* If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names 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**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**.

**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.

###### ImportPackageWithProgressResponse

The **ImportPackageWithProgressResponse** element specifies the result data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageWithProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ImportPackageWithProgressResult" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ImportPackageWithProgressResult:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that is corresponding to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### IsMethodInstantiated

This operation is used to determine if the specified [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) contains at least one [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage** | The request WSDL message for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage** | The response WSDL message for the **IsMethodInstantiated** WSDL operation. |

###### BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsMethodInstantiated** element.

###### BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsMethodInstantiatedResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **IsMethodInstantiated** | The input data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IsMethodInstantiatedResponse** | The result data for the **IsMethodInstantiated** WSDL operation. |

###### IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**IsMethodInstantiatedResult:** The value of this element MUST be "true", if the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) contains at least one [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). Otherwise it MUST be set to "false".

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) contains any [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that is the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of any [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the **Parameter**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="IsParameterReferencedByMethodInstance" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Parameter** is 0. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Parameter** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage** | The request WSDL message for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** | The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation. |

###### BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsParameterReferencedByMethodInstance** element.

###### BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsParameterReferencedByMethodInstanceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **IsParameterReferencedByMethodInstance** | The input data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IsParameterReferencedByMethodInstanceResponse** | The result data for the **IsParameterReferencedByMethodInstance** WSDL operation. |

###### IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsParameterReferencedByMethodInstance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsParameterReferencedByMethodInstanceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**IsParameterReferencedByMethodInstanceResult:** If the value of this element is **true**, the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) contains a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08). If the value of this element is **false**, the specified **Parameter** does not contain a **ReturnTypeDescriptor**. [<97>](#Appendix_A_97" \o "Product behavior note 97)

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectCreate

This operation is used to create a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8), and another **MetadataCatalog** with the same [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) as the specified **MetadataCatalog** already exists, then this operation MUST NOT change the state of the data in the metadata store.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions applies:   * The **rawValues** element specifies an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element. * The **rawValues** element specifies an [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) 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**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) and the security principal (2) in whose context the protocol client is operating is not authorized to modify the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) specified by the **parentStruct** element. * The **rawValues** element specifies an [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) 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**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) 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**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) 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**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. * The **rawValues** element specifies a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. * The **rawValues** element specifies an **Association** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** containing the **Method** specified by the **parentStruct** element. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The **rawValues** element specifies a **MetadataObject** with invalid attributes. * The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is not contained by any **Parameters** that are contained by the **Method** specified by the **parentStruct** element. * The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is contained by a **Parameter** with direction "In". * The **rawValues** element specifies a **MethodInstance** that does not specify a **ReturnTypeDescriptor** and the type of the specified **MethodInstance** is one of the following values:   + AccessChecker   + AssociationNavigator   + BulkAssociatedIdEnumerator   + BulkAssociationNavigator   + BulkIdEnumerator   + BulkSpecificFinder   + ChangedIdEnumerator   + DeletedIdEnumerator   + Finder   + IdEnumerator   + Scalar   + SpecificFinder   + StreamAccessor * The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with **isCollection** element value set to "false" in the **typeDescriptorFlags** element, and the type of the specified **MethodInstance** is one of the following values:   + Finder   + IdEnumerator   + ChangedIdEnumerator   + DeletedIdEnumerator   + BulkSpecificFinder   + BulkAssociationNavigator   + BulkIdEnumerator * The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with **isCollection** element value set to "true" in the **typeDescriptorFlags** element and the type of the specified **MethodInstance** is one of the following values:   + SpecificFinder   + Scalar   + AccessChecker   + Creator   + StreamAccessor * The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** that contains other **TypeDescriptors**, and the type of the specified **MethodInstance** is "StreamAccessor". * The **rawValues** element specifes a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** of the **MethodInstance** also contains other **TypeDescriptors**, and the LobSystem that contains the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the **Method** that contains the **MethodInstance** does not allow this configuration, and the specified **MethodInstance** is a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf). * The **rawValues** element specifies a **MethodInstance**, and the **Method** specified by the **parentStruct** element does not contain a [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e), and the type of the specified **MethodInstance** is one of the following values:   + ChangedIdEnumerator   + DeletedIdEnumerator * The **rawValues** element specifies a **MethodInstance** that requires an input but the **Method** specified by **parentStruct** does not contain any **Parameters** with 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**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) and the same **Entity** is specified as a source of the **Association** more than once. |
| **BdcExceptionState** (section [2.2.4.25](#Section_74cdd9625a6c465ead9003b4dc242944)) | The **MetadataObject** specified in **rawValues** element is an **Entity** or a **TypeDescriptor**. |
| **DuplicateMetadataObjectExceptionState** (section [2.2.4.30](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | One of the following conditions applies:   * The **rawValues** element specifies an LobSystem and another **LobSystem** with the same name already exists in the metadata store. * The **rawValues** element specifies a **MethodInstance** and the DataClass, which contains the **Method** specified by the **parentStruct** element, already contains another **Method** that contains a **MethodInstance** with the same name as the specified **MethodInstance**. * The **rawValues** element specifies an **Association** and the **DataClass**, which contains the **Method** specified by the **parentStruct** element, already contains another **Method** that contains an **Association** with the same name as the specified **Association**. * On the server, if two threads are calling the same function at the same time, and the **rawValues** element of both threads specifies a MetadataCatalog with the same Partition, then one thread can cause the server to respond with a **DuplicateMetadataObjectExceptionState** exception. * The **MetadataObject** specified by the **parentStruct** element already contains another **MetadataObject** that has same name and type as the **MetadataObject** specified by the **rawValues** element. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | One of the following conditions applies:   * The **MetadataObject** specified by the **parentStruct** element already contains the implementation-specific maximum number of **MetadataObjects** that have the same type as the **MetadataObject** specified by the **rawValues** element. * The **rawValues** element specifies a **MethodInstance** that is of type [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533), [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740), [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9), [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4), [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4), or [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066), but the **DataClass** containing the **Method** specified by the **parentStruct** element already has another **MethodInstance** of the same type. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The **MetadataObject** specified by the **parentStruct** is contained by an active **Entity**.[<98>](#Appendix_A_98" \o "Product behavior note 98) |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One of the following conditions applies:   * The **MetadataObject** specified by the **parentStruct** element does not exist in the metadata store. * The **rawValues** element specifies a **MetadataObject** other than **Association** that references another **MetadataObject** that does not exist in the metadata store. |

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to creating the **MetadataObject** in the metadata store.

| MetadataObject | Action |
| --- | --- |
| Identifier | Set the "OrdinalNumber" attribute of the created **Identifier** to 1 plus the maximum value of "OrdinalNumber" attributes of all the **Identifiers** contained by the **Entity** specified by the **parentStruct** element. |
| **Parameter** | Set the "OrdinalNumber" attribute of the created **Parameter** to 1 plus the maximum value of "OrdinalNumber" attributes of all the **Parameters** contained by the **Method** specified by the **parentStruct** element. |
| **MethodInstance** | Set the **IsDefault** attributes of all other **MethodInstances** of type equal to the type of the created **MethodInstance** within the **DataClass** that contains the **Method** specified by the **parentStruct** element to **false**, if the **IsDefault** attribute is **true** on the created **MethodInstance**. If the **IsDefault** attribute is **false** on the created **MethodInstance**, and the **DataClass** that contains the **Method** specified by the **parentStruct** element does not contain any other **MethodInstance** that has the type equal to the type of the created **MethodInstance**, the protocol server MUST set the **IsDefault** attribute of the created **MethodInstance** to **true**.  Copy the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) from the **Entity** that contains the **Method** specified by the **parentStruct** to the created **MethodInstance**. |
| **LobSystem** | Copy the ACEs from the **MetadataCatalog** specified by the **parentStruct** to the created **LobSystem**. |
| **Model** | Copy the ACEs from the **MetadataCatalog** specified by the **parentStruct** to the created **Model**. |
| **Method** | Copy the ACEs from the **Entity** specified by the **parentStruct** to the created **Method**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** | The request WSDL message for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** | The response WSDL message for the **MetadataObjectCreate** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectCreate** element.

###### BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectCreateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectCreate** | The input data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectCreateResponse** | The result data for the **MetadataObjectCreate** WSDL operation. |

###### MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**rawValues:** Specifies the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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.

###### MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="MetadataObjectCreateResult" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MetadataObjectCreateResult:**  The created [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).[<99>](#Appendix_A_99" \o "Product behavior note 99) If the **MetadataObject** specified in the request is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8), and another **MetadataCatalog** with the same [**Partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) as the specified **MetadataCatalog** already exists in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd), this operation MUST return the already existing **MetadataCatalog**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectMergeXml

This operation is used to merge the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) into the existing [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:

* [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) element as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.3.
* [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element as specified in [MS-BDCMFFS] section 2.2.3.4.
* [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) element as specified in [MS-BDCMFFS] section 2.2.3.7.
* [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) element as specified in [MS-BDCMFFS] section 2.2.3.8
* [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) element as specified in [MS-BDCMFFS] section 2.2.3.11.
* [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) element as specified in [MS-BDCMFFS] section 2.2.3.12.
* [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) element as specified in [MS-BDCMFFS] section 2.2.3.14.
* [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) element as specified in [MS-BDCMFFS] section 2.2.3.17.
* [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) element as specified in [MS-BDCMFFS] section 2.2.3.18.
* [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) element as specified in [MS-BDCMFFS] section 2.2.3.24.
* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) element as specified in [MS-BDCMFFS] section 2.2.3.25.
* [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) element as specified in [MS-BDCMFFS] section 2.2.3.28
* [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) element as specified in [MS-BDCMFFS] section 2.2.3.29.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_74cdd9625a6c465ead9003b4dc242944)) | One of the following conditions applies:   * The **mergedStruct** element specifies a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). * The "Properties" value is specified in the **packageContents** element, the specified **MetadataModel** contains Properties for a **MetadataObject**, and the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**. * The "LocalizedNames" value is specified in the **packageContents** element, the specified **MetadataModel** contains localized names for a **MetadataObject**, and the security principal (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](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | 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. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of localized names and the **packageContents** element has "LocalizedNames" in its value. * The specified **MetadataModel** contains one or more **MetadataObjects** which does not contain any ACE that specifies "SetPermissions" permission, and the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:   + **Association**   + **MetadataCatalog**   + **Model**   + **LobSystem**   + **Entity**   + **Method**   + **MethodInstance** |
| **MetadataObjectNotfoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store. [<100>](#Appendix_A_100" \o "Product behavior note 100) |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * The specified **MetadataModel** does not conform to [MS-BDCMFFS] section 2.2. [<101>](#Appendix_A_101" \o "Product behavior note 101) * One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store. * The "Model" value is specified in the **packageContents** element. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** | The request WSDL message for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** | The response WSDL message for the **MetadataObjectMergeXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectMergeXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectMergeXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectMergeXml** | The input data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectMergeXmlResponse** | The result data for the **MetadataObjectMergeXml** WSDL operation. |

###### MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
7. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q8:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.

**packgeContents:** Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST follow the following rules:

* If the "Properties" value is specified the protocol server MUST merge the Properties for the corresponding **MetadataObjects** for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). During this merge, if a Property, that has the same name as the **Property** specified by the **MetadataModel**, already exists for the specified **MetadataObject**, 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**](#gt_b581857f-39aa-4979-876b-daba67a40f15) 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](#Section_c3c4bf392c38436a86dcc61fd29f0a3c)) |
| **ActionParameter** | **ActionParameterStruct** (section [2.2.4.4](#Section_4e81cf793c0047638477dc5520700d70)) |
| **Association** | **AssociationStruct** (section [2.2.4.23](#Section_a8b20a98bce043729ec1b9b95aebc606)) |
| **AssociationGroup** | **AssociationGroupStruct** (section [2.2.4.21](#Section_01bd05db74694f72ab7979d4f826b369)) |
| **Entity** | **EntityStruct** (section [2.2.4.31](#Section_9ada81f4bf5849fdafc5c7e561613ece)) |
| **FilterDescriptor** | **FilterDescriptorStruct** (section [2.2.4.34](#Section_d5e6184b3bee49dea16301eae70f63a7)) |
| **Identifier** | **IdentifierStruct** (section [2.2.4.35](#Section_46fb68dc790d4ffaa2b0ad8593d7b9db)) |
| **LobSystem** | **LobSystemStruct** (section [2.2.4.40](#Section_be718e0eddcc43529804a516df9c73b4)) |
| **LobSystemInstance** | **LobSystemInstanceStruct** (section [2.2.4.39](#Section_ee515e33884f41958776296c0cbfaa28)) |
| **Method** | **MethodStruct** (section [2.2.4.47](#Section_02c746e1c8324228a1fa3cf82c645790)) |
| **MethodInstance** | **MethodInstanceStruct** (section [2.2.4.45](#Section_5d76e49a50664bdd945a1e3ceb5e8af6)) |
| **Model** | **ModelStruct** (section 2.2.4.47) |
| **Parameter** | **ParameterStruct** (section [2.2.4.49](#Section_19b01c3ed2e24d608d728a7c119b0ab9)) |

**settingId:** The Setting to merge the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) and ACEs. If the value is NULL, then protocol server MUST use the default Setting while performing the operation.

**callerCultureLcid:** Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

###### MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectMergeXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q8:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**mergedStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) into which the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) were merged.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectReadXml

This operation is used to create [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd), optionally along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). This operation creates **Properties**, localized names, and ACEs for default [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:

* [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) element as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.3.
* [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element as specified in [MS-BDCMFFS] section 2.1.3.4.
* [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) element as specified in [MS-BDCMFFS] section 2.1.3.7.
* [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) element as specified in [MS-BDCMFFS] section 2.1.3.8.
* [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) element as specified in [MS-BDCMFFS] section 2.1.3.16.
* [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) element as specified in [MS-BDCMFFS] section 2.1.3.19.
* [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) element as specified in [MS-BDCMFFS] section 2.1.3.17.
* [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) element as specified in [MS-BDCMFFS] section 2.1.3.23.
* [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) element as specified in [MS-BDCMFFS] section 2.1.3.24.
* [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) element as specified in [MS-BDCMFFS] section 2.1.3.30.
* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) element as specified in [MS-BDCMFFS] section 2.1.3.31.
* [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) element as specified in [MS-BDCMFFS] section 2.1.3.37.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in the section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions applies:   * The **xml** element specifies an LobSystem and the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) specified by the **parentStruct** element. * The **xml** element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element. * The **xml** element specifies an **Entity** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element. * The **xml** element specifies an **Identifier** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. * The **xml** element specifies an **Action** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. * The **xml** element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element. * The **xml** element specifies a **Method** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. * The **xml** element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. * The **xml** element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. * The **xml** element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. * The **xml** element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. * The **xml** element specifies an **Association** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * "Model" value is not specified in the **packageContents** element. * The "InlineProxies" value is specified for the **packageContents** element and the specified MetadataModel contains an **LobSystem** with an associated [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). * The specified **MetadataModel** contains a **Method** that contains more than oneFilterDescriptorof type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e). * The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return". * The specified **MetadataModel** contains an **Association** which references the same **Entity** more than once as a source of the **Association**. * The specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). * The specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". * The specified **MetadataModel** contains **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values:   + AccessChecker   + AssociationNavigator   + Associator   + BinarySecurityDescriptorAccessor   + BulkAssociatedIdEnumerator   + BulkAssociationNavigator   + BulkIdEnumerator   + BulkSpecificFinder   + ChangedIdEnumerator   + DeletedIdEnumerator   + Deleter   + Disassociator   + SpecificFinder   + Updater   + StreamAccessor * The specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values:   + ChangedIdEnumerator   + DeletedIdEnumerator |
| **BdcExceptionState** (section [2.2.4.25](#Section_74cdd9625a6c465ead9003b4dc242944)) | One of the following conditions applies:   * The specified **MetadataModel** represents a **Model** or a **TypeDescriptor**. * The specified **MetadataModel** does not conform to the format specified in [MS-BDCMFFS]. * One or more of the **TypeDescriptors** are specified in the **MetadataModel** have [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe), but the **Method** that contains the Parameter that contains these **TypeDescriptors**,do not contain the **MethodInstance** specified by these **DefaultValues**. |
| **DuplicateMetadataObjectExceptionState** (section [2.2.4.30](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | The specified **MetadataModel** represents an **LobSystem**, and another **LobSystem** with the same name and different type already exists in the metadata store. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | 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,[<102>](#Appendix_A_102" \o "Product behavior note 102) 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE which specify [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:   + **Association**   + **Entity**   + **LobSystem**   + **Method**   + **MethodInstance** * The specified **MetadataModel** contains one or more **MetadataObject** elements that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:   + **Association**   + **Entity**   + **LobSystem**   + **Method**   + **MethodInstance** |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | 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](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * One or more **Entities** in the specified **MetadataModel** already exist on a different **LobSystem**. * The protocol server cannot find the Parameter that contains the ReturnTypeDescriptor associated with one of the **MethodInstances** contained by the specified **MetadataModel**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** | The request WSDL message for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** | The response WSDL message for the **MetadataObjectReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectReadXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectReadXml** | The input data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectReadXmlResponse** | The result data for the **MetadataObjectReadXml** WSDL operation. |

###### MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
7. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The XML representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the MetadataModel are to be created. The protocol server MUST follow the following rules:

* If the "Properties" value is specified the protocol server MUST create the specified [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).
* If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names 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](#Section_c3c4bf392c38436a86dcc61fd29f0a3c)) |
| **ActionParameter** | **ActionParameterStruct** (section [2.2.4.4](#Section_4e81cf793c0047638477dc5520700d70)) |
| **Association** | **AssociationStruct** (section [2.2.4.23](#Section_a8b20a98bce043729ec1b9b95aebc606)) |
| **AssociationGroup** | **AssociationGroupStruct** (section [2.2.4.21](#Section_01bd05db74694f72ab7979d4f826b369)) |
| **Entity** | **EntityStruct** (section [2.2.4.31](#Section_9ada81f4bf5849fdafc5c7e561613ece)) |
| **FilterDescriptor** | **FilterDescriptorStruct** (section [2.2.4.34](#Section_d5e6184b3bee49dea16301eae70f63a7)) |
| **Identifier** | **IdentifierStruct** (section [2.2.4.35](#Section_46fb68dc790d4ffaa2b0ad8593d7b9db)) |
| **LobSystem** | **LobSystemStruct** (section [2.2.4.40](#Section_be718e0eddcc43529804a516df9c73b4)) |
| **LobSystemInstance** | **LobSystemInstanceStruct** (section [2.2.4.39](#Section_ee515e33884f41958776296c0cbfaa28)) |
| **Method** | **MethodStruct** (section [2.2.4.46](#Section_202ec022c1684a678b7f9f31545d26e8)) |
| **MethodInstance** | **MethodInstanceStruct** (section [2.2.4.45](#Section_5d76e49a50664bdd945a1e3ceb5e8af6)) |
| **Parameter** | **ParameterStruct** (section [2.2.4.49](#Section_19b01c3ed2e24d608d728a7c119b0ab9)) |

**callerCultureLcid:** Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

###### MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**readStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that specifies the created **MetadataObject**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the followingobjectsfrom the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) 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**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectWriteXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in the section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | One of the following conditions applies:   * 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 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](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The "InlineProxies" value requires the "Model" value to be also specified for the **packageContents** element. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One or more **MetadataObjects** required for the operation does not exist. [<103>](#Appendix_A_103" \o "Product behavior note 103) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** | The request WSDL message for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** | The response WSDL message for the **MetadataObjectWriteXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectWriteXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectWriteXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectWriteXml** | The input data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectWriteXmlResponse** | The result data for the **MetadataObjectWriteXml** WSDL operation. |

###### MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to be retrieved.

**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**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for the corresponding **MetadataObjects** from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).
* If the "LocalizedNames" value is specified, the protocol server MUST retrieve the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified then the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) as the localized names in the specified **Setting**.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified, the protocol server MUST retrieve the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) 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**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) 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.

###### MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectWriteXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MetadataObjectWriteXmlResult:** The XML that represents the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598). The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table:

| Complex type | Root element |
| --- | --- |
| **ActionParameterStruct** (section [2.2.4.4](#Section_4e81cf793c0047638477dc5520700d70)) | If the **packageContents** element is set to "Model", the [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.4. Otherwise, the **ActionParameter** element as specified in [MS-BDCMFFS] section 2.2.3.4. |
| **ActionStruct** (section [2.2.4.5](#Section_c3c4bf392c38436a86dcc61fd29f0a3c)) | If the **packageContents** element is set to "Model", the [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) 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](#Section_01bd05db74694f72ab7979d4f826b369)) | If the **packageContents** element is set to "Model", the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) 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](#Section_a8b20a98bce043729ec1b9b95aebc606)) | If the **packageContents** element is set to "Model", the [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) 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](#Section_9ada81f4bf5849fdafc5c7e561613ece)) | If the **packageContents** element is set to "Model", the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) element as specified in [MS-BDCMFFS] section 2.1.3.16. Otherwise, the **Entity** element as specified in [MS-BDCMFFS] section 2.2.3.11. |
| **FilterDescriptorStruct** (section [2.2.4.34](#Section_d5e6184b3bee49dea16301eae70f63a7)) | If the **packageContents** element is set to "Model", the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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](#Section_46fb68dc790d4ffaa2b0ad8593d7b9db)) | If the **packageContents** element is set to "Model", the [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2) 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](#Section_be718e0eddcc43529804a516df9c73b4)) | If the "Model" value of **packageContents** is specified, the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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](#Section_ee515e33884f41958776296c0cbfaa28)) | If the "Model" value of **packageContents** is specified, the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) 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](#Section_202ec022c1684a678b7f9f31545d26e8)) | If the "Model" value of **packageContents** is specified, the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) 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](#Section_5d76e49a50664bdd945a1e3ceb5e8af6)) | If the "Model" value of **packageContents** is specified, the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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](#Section_02c746e1c8324228a1fa3cf82c645790)) | If the "Model" value of **packageContents** is specified, the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) 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](#Section_19b01c3ed2e24d608d728a7c119b0ab9)) | If the "Model" value of **packageContents** is specified, the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) 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](#Section_3d0b4df1586d4fa29793665abf0f09c8)) | If the "Model" value of **packageContents** is specified, the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) 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. [<104>](#Appendix_A_104" \o "Product behavior note 104) |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ModelReadXml

This operation is used to create [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45), [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the **MetadataModel** contains an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem** and **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ModelReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8). |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The "Model" value is not specified in the **packageContents** element. * The specified **MetadataModel** contains one or more **MetadataObjects** with invalid attributes. [<105>](#Appendix_A_105" \o "Product behavior note 105) * The "InlineProxies" value is specified for the **packageContents** element and the specified **MetadataModel** contains **LobSystem** with an associated [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). * The specified **MetadataModel** contains a [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) that contains more than one [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e). * The specified **MetadataModel** contains a **Method** that contains more than one [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) with direction "Return". * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values:   + AccessChecker   + AssociationNavigator   + Associator   + BinarySecurityDescriptorAccessor   + BulkAssociatedIdEnumerator   + BulkAssociationNavigator   + BulkIdEnumerator   + BulkSpecificFinder   + ChangedIdEnumerator   + DeletedIdEnumerator   + Deleter   + Disassociator   + SpecificFinder   + Updater   + StreamAccessor * The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values:   + ChangedIdEnumerator   + DeletedIdEnumerator * The specified **MetadataModel** contains an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) which specifies an Entity as a source more than once. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified MetadataCatalog is 0. |
| **DuplicateMetadataObjectExceptionState** (section [2.2.4.30](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | One of the following conditions applies:   * The value of the **updateModel** element is FALSE, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** contained by the specified **MetadataCatalog**. * The specified **MetadataModel** represents an **LobSystem**, but an **LobSystem** with the same name and different **SystemType** value already exists in the metadata store. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | 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[<106>](#Appendix_A_106" \o "Product behavior note 106) 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE which specify [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: * **Association** * **Entity** * **LobSystem** * **Method** * **MethodInstance** * The specified **MetadataModel** contains one or more **MetadataObject** elements that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:   + **Association**   + **Entity**   + **LobSystem**   + **Method**   + **MethodInstance** |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | 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](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * The specified XML does not conform to the format specified in [MS-BDCMFFS].[<107>](#Appendix_A_107" \o "Product behavior note 107) * 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. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** | The request WSDL message for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** | The response WSDL message for the **ModelReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ModelReadXml** element.

###### BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ModelReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ModelReadXml** | The input data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ModelReadXmlResponse** | The result data for the **ModelReadXml** WSDL operation. |

###### ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="applicationRegistryStruct" nillable="true" type="q8:MetadataObjectStruct"/>
7. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
8. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

* If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) already contains a Property with the same name in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) for the **MetadataObject**, the Property in the metadata store MUST be replaced.
* If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified, the protocol server MUST create the specified [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified, the protocol server MUST delete [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
* If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**applicationRegistryStruct:** The [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) 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**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**.

###### ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ModelReadXmlResult" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ModelReadXmlResult:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that is corresponding to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReadSlicedXml

This operation is deprecated from the protocol and MUST NOT be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage** | The request WSDL message for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage** | The response WSDL message for the **ReadSlicedXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReadSlicedXml** element.

###### BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReadSlicedXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReadSlicedXml** | The input data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReadSlicedXmlResponse** | The result data for the **ReadSlicedXml** WSDL operation. |

###### ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
7. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** Deprecated.

**packageContents:** Deprecated.

**parentStruct:** Deprecated.

**readStruct:** Deprecated.

**callerCultureLcid:** Deprecated.

###### ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** Deprecated.

**readStruct:** Deprecated.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveEntityFromModel

This operation is used to remove the reference to the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) from the specified Model.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to remove the reference from the specified [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f) to the specified Entity. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Entity** is not referenced by the specified **Model**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** | The request WSDL message for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** | The response WSDL message for the **RemoveEntityFromModel** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveEntityFromModel** element.

###### BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveEntityFromModelResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveEntityFromModel** | The input data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveEntityFromModelResponse** | The result data for the **RemoveEntityFromModel** WSDL operation. |

###### RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q8:ModelStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**modelStruct:** The [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f).

**entityStruct:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

###### RemoveEntityFromModelResponse

The **RemoveEntityFromModelResponse** element specifies the result data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveEntityFromModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveLocalizedName

This operation is used to remove the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) with the specified [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) from the specified MetadataObject.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The localized name for the specified LCID does not exist in the specified **Setting** for the specified **MetadataObject**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** | The request WSDL message for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** | The response WSDL message for the **RemoveLocalizedName** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveLocalizedName** element.

###### BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveLocalizedNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveLocalizedName** | The input data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveLocalizedNameResponse** | The result data for the **RemoveLocalizedName** WSDL operation. |

###### RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**lcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) to be removed.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to remove the localized name from.

###### RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveProperty

This operation is used to remove the specified Property from the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The **name** element is empty or NULL. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** | The request WSDL message for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** | The response WSDL message for the **RemoveProperty** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveProperty** element.

###### BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemovePropertyResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveProperty** | The input data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemovePropertyResponse** | The result data for the **RemoveProperty** WSDL operation. |

###### RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**name:** The name of the **Property** to be deleted.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to delete the **Property**.

###### RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SaveLocalizedName

This operation is used to add or replace a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The specified **MetadataObject** already contains the implementation-specific maximum number of localized names. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage** | The request WSDL message for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage** | The response WSDL message for the **SaveLocalizedName** WSDL operation. |

###### BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveLocalizedName** element.

###### BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveLocalizedNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SaveLocalizedName** | The input data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SaveLocalizedNameResponse** | The result data for the **SaveLocalizedName** WSDL operation. |

###### SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**lcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the localized name to be saved.

**name:** The localized name of the **MetadataObject**.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to write the localized name to.

###### SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SaveProperty

This operation is used to add or replace a **Property** for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If a **Property** with the same name as the specified **Property** already exists for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | The specified **MetadataObject** already contains the implementation-specific maximum number of [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45). |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** | The request WSDL message for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** | The response WSDL message for the **SaveProperty** WSDL operation. |

###### BusinessDataCatalogSharedService\_SaveProperty\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveProperty** element.

###### BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SavePropertyResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SaveProperty** | The input data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SavePropertyResponse** | The result data for the **SaveProperty** WSDL operation. |

###### SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="propertyStruct" nillable="true" type="q8:PropertyStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**propertyStruct:** The **Property** to be saved.

###### SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetAccessControlEntries

This operation is used to set an [**access control list (ACL)**](#gt_9f92aa05-dd0a-45f2-88d6-89f1fb654395) to the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The protocol server MUST delete all [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the specified **MetadataObject** for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78), and then adds the specified ACEs to the specified **MetadataObject**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to set permissions on the specified **MetadataObject**. |
| **ArgumentOutOfRangeException** (section [2.2.4.9](#Section_e7012003fcc94ec3acc2197c7cb5af7d)) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the specified **MetadataObject** is set to zero. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * At least one of the specified ACEs contains an invalid value for **principalName** element. * The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** | The request WSDL message for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** | The response WSDL message for the **SetAccessControlEntries** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAccessControlEntries** element.

###### BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAccessControlEntriesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetAccessControlEntries** | The input data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetAccessControlEntriesResponse** | The result data for the **SetAccessControlEntries** WSDL operation. |

###### SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="accessControlEntries" nillable="true" type="q8:ArrayOfAccessControlEntryStruct"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The **MetadataObject** MUST be of one of the following types:

* [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8)
* [**Model**](#gt_0a221fc5-b917-42ae-8c32-33f19be2164f)
* [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66)
* [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e)
* [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968)
* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52)

**accessControlEntries:** The [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15).

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to write the ACEs to.

###### SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAccessControlEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetDefaultActionForEntity

This operation is used to set the default [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) for the specified [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetDefaultActionForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **Entity**. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **Entity** does not exist or does not contain an **Action** with the specified name. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage** | The request WSDL message for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage** | The response WSDL message for the **SetDefaultActionForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultActionForEntity** element.

###### BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultActionForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetDefaultActionForEntity** | The input data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetDefaultActionForEntityResponse** | The result data for the **SetDefaultActionForEntity** WSDL operation. |

###### SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q8:EntityStruct"/>
5. <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityStruct:** The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to which a default [**Action**](#gt_b178b6c0-7df9-4107-95ca-12c7f0b9900b) will be set.

**actionName:** The name of the Action to be set as default Action to the specified Entity.

**partitionId:** The [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultActionForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetDefaultValuesForTypeDescriptor

This operation is used to set the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) specified by the **typeDescriptorId** element of the specified DefaultValueStruct (section [2.2.4.29](#Section_d875144119eb4b22bf6dfbd6e746ef36)) complex type for the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct** (section 2.2.4.29).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetDefaultValuesForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor**\_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) containing the specified TypeDescriptor. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The specified DefaultValue is invalid. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | The specified **TypeDescriptor** already contains the implementation-specific maximum number of **DefaultValues**. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **TypeDescriptor** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage** | The request WSDL message for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage** | The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultValuesForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultValuesForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetDefaultValuesForTypeDescriptor** | The input data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetDefaultValuesForTypeDescriptorResponse** | The result data for the **SetDefaultValuesForTypeDescriptor** WSDL operation. |

###### SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultValuesForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="defaultValueStruct" nillable="true" type="q8:DefaultValueStruct"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**defaultValueStruct:** The [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) to be set for the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) .

**partitionId:** An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

###### SetDefaultValuesForTypeDescriptorResponse

The **SetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultValuesForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetLobSystemDataByLobSystemId

This operation is deprecated from the protocol and MUST NOT be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetLobSystemDataByLobSystemId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage** | The request WSDL message for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage** | The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetLobSystemDataByLobSystemId** element.

###### BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetLobSystemDataByLobSystemIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetLobSystemDataByLobSystemId** | The input data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetLobSystemDataByLobSystemIdResponse** | The result data for the **SetLobSystemDataByLobSystemId** WSDL operation. |

###### SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="proxyGenerationResult" nillable="true" type="tns2:ProxyGenerationResult"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** Deprecated.

**proxyGenerationResult:** Deprecated.

**partitionId:** Deprecated.

###### SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetLobSystemDataByLobSystemIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorCreate

This operation is used to create a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** response message, unless any 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**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) specified by **parameterStruct** element. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The TypeDescriptor specified by **rawValues** element and the **TypeDescriptor** specified by **parentTypeDescriptorStruct** element are contained by different **Parameters**. * The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. * The **TypeDescriptor** specified by **parentTypeDescriptorStruct** element is NULL and the **Parameter** has another [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010). * The **TypeDescriptor** and the parent **TypeDescriptor** specified by **parentTypeDescriptorStruct** element have the **IsCollection** flag set. * The **TypeDescriptor** is associated with a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) and the **FilterDescriptor** is not contained by the Method that contains the **Parameter** specified by **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](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | The **TypeDescriptor** specified by the **parentStruct** element already contains another **TypeDescriptor** that has the same name. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | One of the following conditions applies:   * 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | The **Parameter** specified by the **parameterStruct** element is contained by an active [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e).[<108>](#Appendix_A_108" \o "Product behavior note 108) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** | The request WSDL message for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** | The response WSDL message for the **TypeDescriptorCreate** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorCreate** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorCreateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorCreate** | The input data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorCreateResponse** | The result data for the **TypeDescriptorCreate** WSDL operation. |

###### TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q8:TypeDescriptorStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q8:ParameterStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**rawValues:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) 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**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010), then the value of this element MUST be NULL.

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) containing the created TypeDescriptor.

###### TypeDescriptorCreateResponse

The **TypeDescriptorCreateResponse** element specifies the result data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorCreateResult" nillable="true" type="q8:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**TypeDescriptorCreateResult:** The created [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorMergeXml

This operation is used to merge the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) contained by the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) into an existing **TypeDescriptor** in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.34.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | The "Model" value is specified in the **packageContents** element. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | 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](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | 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](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | One of the following conditions applies:   * The specified **Parameter** or the specified **TypeDescriptor** could not be found. * The specified **TypeDescriptor** could not be found. |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | The **TypeDescriptor** specified in the **MetadataModel** does not exist in the specified **TypeDescriptor** or the specified **Parameter** if a **TypeDescriptor** is not specified. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** | The request WSDL message for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** | The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorMergeXml** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorMergeXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorMergeXml** | The input data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorMergeXmlResponse** | The result data for the **TypeDescriptorMergeXml** WSDL operation. |

###### TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q8:ParameterStruct"/>
7. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
8. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.34.

**packgeContents:** Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server MUST 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**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). During this merge, if a **Property**, that has the same name as the **Property** specified in the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name, that has the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) and **Setting** as the localized name specified by the **MetadataModel**, already exists for the specified **TypeDescriptor**, 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) 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**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010).

**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.

###### TypeDescriptorMergeXmlResponse

The **TypeDescriptorMergeXmlResponse** element specifies the result data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorMergeXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorMergeXmlResult" nillable="true" type="q8:TypeDescriptorStruct"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**TypeDescriptorMergeXmlResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) into which the [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) were merged.

**errors:** List of implementation-specific error messages that occurred while performing this operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorReadXml

This operation is used to create the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee), along with their [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element as specified in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.43.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) containing the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The "Model" value is not specified in the **packageContents** element. * The data type referenced by a **TypeDescriptor** contained by the **MetadataModel** is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. * The **MetadataModel** contains a **TypeDescriptor** that has "IsCollection" flag set and contains another **TypeDescriptor** that has "IsCollection" flag set. * The specified **TypeDescriptor** has "IsCollection" flag set and the **TypeDescriptor** which correspond to the specified **MetadataModel** also has "IsCollection" flag set. * The specified **TypeDescriptor** has "IsCollection" flag set and already contains a **TypeDescriptor**. * The specified **TypeDescriptor** is NULL and the specified **Parameter** already has a root **TypeDescriptor**. * The specified **TypeDescriptor** is not contained by the specified **Parameter**. * The specified **MetadataModel** contains a **TypeDescriptor** that has "ReadOnly" flag set and the specified **Parameter** has direction "In". |
| **DuplicateMetadataObjectExceptionState** (section [2.2.4.30](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | The specified **TypeDescriptor** already contains another **TypeDescriptor** with the same name as the **TypeDescriptor** which corresponds to the **MetadataModel**. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | One of the following conditions applies:   * The specified **MetadataModel** contains a **TypeDescriptor** that contains more **TypeDescriptors** than the implementation-specific maximum number of **TypeDescriptors**. * The specified **TypeDescriptor** contains implementation-specific maximum number of **TypeDescriptors**. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * The [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) containing the **Method** that contains the specified **Parameter** is active. [<109>](#Appendix_A_109" \o "Product behavior note 109) * The specified **Parameter** does not exist. |
| **MetadataObjectNotFoundExceptionState** (section [2.2.4.43](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **TypeDescriptor** does not exist. |
| **PackageFormatExceptionState** (section [2.2.4.48](#Section_e95c84a859914110a2cbe38c12196ca4)) | One of the following conditions applies:   * The specified XML does not conform to the format specified in [MS-BDCMFFS]. * The **Method** containing the specified **Parameter** does not contain the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) referenced by the specified **MetadataModel**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** | The request WSDL message for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** | The response WSDL message for the **TypeDescriptorReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorReadXml** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorReadXml** | The input data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorReadXmlResponse** | The result data for the **TypeDescriptorReadXml** WSDL operation. |

###### TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q8:ParameterStruct"/>
7. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) 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**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).
* If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified, the protocol server MUST create the specified [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) in which to create the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the **MetadataModel**.

**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**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the **Parameter**.

**callerCultureLcid:**  This value MUST be ignored.

###### TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorReadXmlResult" nillable="true" type="q8:TypeDescriptorStruct"/>
5. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**TypeDescriptorReadXmlResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that is corresponding to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Update

This operation is used to update a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService\_Update\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService\_Update\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Update\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Update\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8)). If more than one error 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](#Section_c0f25e3c046e426483b0490027dd69f7)) | The [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**. |
| **ArgumentException** (section [2.2.4.7](#Section_25436e1d32ed49c1ba22a9f5ca820c80)) | One of the following conditions applies:   * The specified **MetadataObject** name is NULL or empty. * The length of the specified **MetadataObject** name exceeds 255 characters. |
| **ConcurrentModificationExceptionState** (section [2.2.4.27](#Section_ed2eef32cdfa45a78eeb373fb3ff5aea)) | 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](#Section_acd9e6afcda7407eaa9c76b29a45ed9a)) | The parent **MetadataObject** contains another **MetadataObject** with the same **MetadataObject** name. |
| **ExceededMetadataObjectLimitExceptionState** (section [2.2.4.32](#Section_0731a9beaedc4b63a6e3bdb00b1020ea)) | One of the following conditions applies:   * The parent of the specified **MetadataObject** already contains the implementation-specific maximum number of **MetadataObjects** of the same type as the specified **MetadataObject**. * The specified **MetadataObject** is a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) and one of the following conditions holds true: * The type of the specified **MethodInstance** is [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533) and the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **IdEnumerator**.[<110>](#Appendix_A_110" \o "Product behavior note 110) * The type of the specified **MethodInstance** is [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740) and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **AccessChecker**.[<111>](#Appendix_A_111" \o "Product behavior note 111) * The type of the specified **MethodInstance** is [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9) and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **Deleter**.[<112>](#Appendix_A_112" \o "Product behavior note 112) * The type of the specified **MethodInstance** is [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **ChangedIdEnumerator**.[<113>](#Appendix_A_113" \o "Product behavior note 113) * The type of the specified **MethodInstance** is [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4) and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **DeletedIdEnumerator**.[<114>](#Appendix_A_114" \o "Product behavior note 114) * The type of the specified **MethodInstance** is [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066) and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **BulkIdEnumerator**.[<115>](#Appendix_A_115" \o "Product behavior note 115) |
| **InvalidMetadataObjectExceptionState** (section [2.2.4.36](#Section_a8caae25c31141ac9dab28bf733f4a78)) | One of the following conditions applies:   * The specified **MetadataObject** is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010), and it is being updated to be part of a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that already has a root **TypeDescriptor**. * The specified **MetadataObject** is an [**Association**](#gt_3a629986-156f-48fa-ae7b-bb46b8f9dc61) or a **MethodInstance** and the **Parameter** of the specified [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) is not contained by the same [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968) as the specified **Association** or **MethodInstance**.[<116>](#Appendix_A_116" \o "Product behavior note 116) * 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**.[<117>](#Appendix_A_117" \o "Product behavior note 117) The specified type of **MethodInstance** is one of the following values: * SpecificFinder * AccessChecker * Updater * Deleter * 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 **ReturnTypeDescriptor** has the **Direction** attribute specified as "In".[<118>](#Appendix_A_118" \o "Product behavior note 118) * The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST be present for the specified type for the **MethodInstance**, however it is passed in as NULL or 0.[<119>](#Appendix_A_119" \o "Product behavior note 119) The specified type of **MethodInstance** is one of the following values: * AccessChecker * AssociationNavigator * ChangedIdEnumerator * DeletedIdEnumerator * Finder * IdEnumerator * Scalar * SpecificFinder * StreamAccessor * The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST have the "IsCollection" flag set for the specified type for the **MethodInstance**. The specified type of **MethodInstance** is one of the following values: * SpecificFinder * Scalar * AccessChecker * Creator * StreamAccessor * The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST have the "IsCollection" flag not set for the specified type for the **MethodInstance**. The specified type of **MethodInstance** is one of the following values: * ChangedIdEnumerator * DeletedIdEnumerator * Finder * IdEnumerator * The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST NOT contain any **TypeDescriptors** for **MethodInstance** of StreamAccessor type. * The specified **MetadataObject** is a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** MUST NOT contain any other **TypeDescriptors** for **MethodInstance** of StreamAccessor type and the type for the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) containing the [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) containing **MethodInstance** of StreamAccessor type is **DataBase**. * The specified **MetadataObject** is an **Entity** and the specified **CacheUsage**, **MajorVersion**, **MinorVersion**, **BuildVersion**, or **RevisionVersion** is invalid. * The specified **MetadataObject** is a **Parameter** and the specified Direction is invalid. * The specified **MetadataObject** is a **MethodInstance** and the specified type is invalid. * The specified **MetadataObject** is a **TypeDescriptor** and the specified flags are invalid. * The specified **MetadataObject** is a **Parameter** and the **Method** that contains the specified **Parameter** already contains another **Parameter** with **Direction** "Return". * The specified **MetadataObject** is a **TypeDescriptor** and the **Parameter** containing the specified **TypeDescriptor** has value "In" for the **Direction** attribute, but the specified **TypeDescriptor** has the "Read-Only" flag set for its TypeDescriptorFlags attribute. * The specified **MetadataObject** is a **Parameter** and the specified **Parameter** is not allowed to have value "In" for the **Direction** attribute because one of the **TypeDescriptors** contained by the specified **Parameter** has the "Read-Only" flag set for its **TypeDescriptorFlags** attribute. * The specified **MetadataObject** is a **Parameter** 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**.[<120>](#Appendix_A_120" \o "Product behavior note 120) * 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e) and the specified **FilterDescriptor** is updated to be a **FilterDescriptor** of type **TimeStampFilter**. |
| **InvalidOperationException** (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) | One of the following conditions applies:   * The operation cannot be performed because the specified **MetadataObject** is an **Association** or a **MethodInstance** contained by an active **Entity**.[<121>](#Appendix_A_121" \o "Product behavior note 121) * 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](#Section_d8b4fe2a313e4c21a49a7fb4fa1041a9)) | The specified **MetadataObject** does not exist. |

Upon successful operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to 0.

If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified **MetadataObject** in the metadata store:

| MetadataObject | Action |
| --- | --- |
| **Parameter** | If the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, the **ordinalNumber** attribute of **Parameters** contained by that **Method** that have the **ordinalNumber** attribute greater than or equal to the **ordinalNumber** attribute of the specified **Parameter** MUST be incremented.  After the operation completes, all **Parameters** contained by the **Method** containing the specified **Parameter** MUST have **ordinalNumber** attributes in the range from zero to *n-1*, where *n* is the number of **Parameters** contained by that **Method**. **Parameters** not contained by the **Method**, which contains the specified **Parameter**, MUST NOT have their **ordinalNumber** attributes altered. [<122>](#Appendix_A_122" \o "Product behavior note 122) |
| **MethodInstance** | When the **isDefault** attribute of the specified **MethodInstance** is set to 1, the protocol server MUST set the **isDefault** attribute of all other **MethodInstances** that have the same value for the MethodInstanceType attribute within the containing **DataClass** to 0. When the **isDefault** attribute of the specified **MethodInstance** is set to 0 (and it was previously set to 1), the protocol server MUST set the **IsDefault** attribute of a **MethodInstance** with the same value for MethodInstanceType within the containing **DataClass** to 1[<123>](#Appendix_A_123" \o "Product behavior note 123). The protocol server MUST decide which **MethodInstance** to alter based on an implementation-specific algorithm. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_Update\_InputMessage** | The request WSDL message for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_Update\_OutputMessage** | The response WSDL message for the **Update** WSDL operation. |

###### BusinessDataCatalogSharedService\_Update\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Update** element.

###### BusinessDataCatalogSharedService\_Update\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpdateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Update** | The input data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UpdateResponse** | The result data for the **Update** WSDL operation. |

###### Update

The **Update** element specifies the input data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to update[<124>](#Appendix_A_124" \o "Product behavior note 124). The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** MUST be used to identify the **MetadataObject** to update. The remaining values of the specified **MetadataObject** MUST be used to update the values associated with the identified **MetadataObject** in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

###### UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="UpdateResult" nillable="true" type="q8:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**UpdateResult:** The updated [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### WriteSlicedXml

This operation is deprecated from the protocol and SHOULD NOT[<125>](#Appendix_A_125" \o "Product behavior note 125) be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage** | The request WSDL message for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage** | The response WSDL message for the **WriteSlicedXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **WriteSlicedXml** element.

###### BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **WriteSlicedXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **WriteSlicedXml** | The input data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **WriteSlicedXmlResponse** | The result data for the **WriteSlicedXml** WSDL operation. |

###### WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
5. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** Deprecated.

**packageContents:** Deprecated.

###### WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**WriteSlicedXmlResult:** Deprecated.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view on how the protocol client operates with the protocol server when executing such an operation.

The examples in this section manipulate the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) objects. However, the principals illustrated apply equally to other MetadataObjects.

## Creating an LobSystem

This example illustrates how a user can create an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following actions are carried out:

1. The user requests the protocol client to create an **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **MetadataObjectCreate** method as shown in the following sample code segment:
3. // Assumes a Service Reference to the Business Data Catalog shared service has been created
4. // Instantiate the Business Data Catalog SharedService client
5. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
6. // /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/
7. // Instantiate the AdministrationMetadataCatalogStruct
8. BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new BDCServiceReference.AdministrationMetadataCatalogStruct();
9. myBDC.id = 1;
10. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
11. myBDC.partitionId = myPartition;
12. // Instantiate the LobSystem object
13. BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
14. // Setup the LobSystem object
15. myLob.partitionId = myPartition;
16. myLob.name = "ExampleCRM";
17. myLob.systemType = BDCServiceReference.SystemType.Database;
18. // call the MetadataObjectCreate method to create the LobSystem.
19. myClient.MetadataObjectCreate(myLob, myBDC);

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <rawValues i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>0</a:id>
6. <a:isCached>false</a:isCached>
7. <a:name>ExampleCRM</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:systemType>Database</a:systemType>
11. </rawValues>
12. <parentStruct i:type="a:AdministrationMetadataCatalogStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <a:id>1</a:id>
14. <a:isCached>false</a:isCached>
15. <a:name i:nil="true"/>
16. <a:objectVersion>0</a:objectVersion>
17. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
18. </parentStruct>
19. </MetadataObjectCreate>
20. </s:Body>
21. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <MetadataObjectCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <MetadataObjectCreateResult i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>122</a:id>
6. <a:isCached>false</a:isCached>
7. <a:name>ExampleCRM</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:systemType>Database</a:systemType>
11. </MetadataObjectCreateResult>
12. </MetadataObjectCreateResponse>
13. </s:Body>
14. </s:Envelope>

## Setting the Security Information of a MetadataObject

This example illustrates how a user can set Security Information of an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

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**](#gt_b581857f-39aa-4979-876b-daba67a40f15) on the **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **SetAccessControlEntries** method as shown in the following sample code segment:
3. //This method shows how to set the ACL entries on an entity
4. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
5. BDCServiceReference.LobSystemStruct myLob;
6. BDCServiceReference.AccessControlEntryStruct[] myACLs;
7. BDCServiceReference.AccessControlEntryStruct myACL;
9. //Instantiate the BDCSharedServiceClient
10. myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
11. // /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/
12. //First get the metadaobject with the name
13. myLob = new BDCServiceReference.LobSystemStruct();
14. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
15. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
16. //setup the ACL object
17. myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
18. myACL.rights = 23;
19. myACL.principalName = "Domain\\UserName";
20. myACL.principalDisplayName = "UserName";
21. myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] { myACL };
22. // set the ACL on the metadatobject by calling the SetAccessControlEntries method
23. myClient.SetAccessControlEntries(myLob, myACLs, null);

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SetAccessControlEntries xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>122</a:id>
6. <a:isCached>false</a:isCached>
7. <a:name>ExampleCRM</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:systemType>Database</a:systemType>
11. </metadataObjectStruct>
12. <accessControlEntries xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <a:AccessControlEntryStruct>
14. <a:principalBinaryForm i:nil="true"/>
15. <a:principalDisplayName>UserName</a:principalDisplayName>
16. <a:principalName>Domain\UserName</a:principalName>
17. <a:rights>23</a:rights>
18. </a:AccessControlEntryStruct>
19. </accessControlEntries>
20. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
21. </SetAccessControlEntries>
22. </s:Body>
23. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SetAccessControlEntriesResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
4. </s:Body>
5. </s:Envelope>

## Reading the Security Information of a MetadataObject

This example illustrates how a user can read the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

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:
3. //This method shows how to set the ACL entries on an entity
4. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
5. BDCServiceReference.LobSystemStruct myLob;
6. BDCServiceReference.AccessControlEntryStruct[] myACLs;
8. //Instantiate the BDCSharedServiceClient
9. myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
2. //First get the metadaobject with the name
3. myLob = new BDCServiceReference.LobSystemStruct();
4. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
6. //Read the ACL entries on the entity
7. myACLs = myClient.GetAccessControlEntries(myLob, null, true);

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetAccessControlEntries xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>122</a:id>
6. <a:isCached>false</a:isCached>
7. <a:name>ExampleCRM</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:systemType>Database</a:systemType>
11. </metadataObjectStruct>
12. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
13. <fallback>true</fallback>
14. </GetAccessControlEntries>
15. </s:Body>
16. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetAccessControlEntriesResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <GetAccessControlEntriesResult xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:AccessControlEntryStruct>
6. <a:principalBinaryForm i:nil="true"/>
7. <a:principalDisplayName>UserName</a:principalDisplayName>
8. <a:principalName>Domain\UserName</a:principalName>
9. <a:rights>23</a:rights>
10. </a:AccessControlEntryStruct>
11. </GetAccessControlEntriesResult>
12. </GetAccessControlEntriesResponse>
13. </s:Body>
14. </s:Envelope>

## Creating an Entity

This example illustrates how a user can create an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The example assumes that:

* An [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) 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**](#gt_b581857f-39aa-4979-876b-daba67a40f15) associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** 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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
5. // /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/
6. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
7. //Get LOB system first as it is needed for creating the entity.
8. BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
9. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
10. //Instantiate entity object
11. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
12. //set properties
13. myEntity.name = "Customer";
14. myEntity.@namespace = "example.com";
15. myEntity.isCached = true;
16. myEntity.objectVersion = 0;
17. System.Version ver = new Version(1,0,0,0);
18. myEntity.version = ver;
19. myEntity.partitionId = myPartition;
20. myEntity.estimatedInstanceCount = 100;
21. //create entity
22. myClient.EntityCreate(myEntity,myLob,null);
23. The protocol server creates the **Entity** in the metadata store.
24. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <rawValues xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>0</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>false</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </rawValues>
24. <lobSystemStruct xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
25. <a:id>122</a:id>
26. <a:isCached>false</a:isCached>
27. <a:name>ExampleCRM</a:name>
28. <a:objectVersion>0</a:objectVersion>
29. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
30. <a:systemType>Database</a:systemType>
31. </lobSystemStruct>
32. <modelStruct i:nil="true" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
33. </EntityCreate>
34. </s:Body>
35. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <EntityCreateResult xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>false</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </EntityCreateResult>
24. </EntityCreateResponse>
25. </s:Body>
26. </s:Envelope>

## Activating an Entity

This example illustrates how a user can set a version of an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) to be active in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

This example assumes that:

* The preceding examples have been successfully executed.
* After successfully creating the "Customer" **Entity**, the user has added some other [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to; an [**Identifier**](#gt_62f400ab-0d69-4ca6-9c6f-12fc7b6f1ea2), [**Method**](#gt_f99d793b-65f7-48f5-a6f5-f1c357de3968), 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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
2. System.Version ver = new Version(1,0,0,0);
3. myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer", ver, partition);
4. BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);
5. The protocol server checks whether the **Entity** exists in the metadata store.
6. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <entityStruct xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>0</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>false</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </entityStruct>
24. </Activate>
25. </s:Body>
26. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <ActivateResult xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>1</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </ActivateResult>
24. </ActivateResponse>
25. </s:Body>
26. </s:Envelope>

## Reading an Entity

This example shows how a user can read an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. // /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/
5. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
6. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
7. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
8. The protocol server checks whether the **Entity** exists in the metadata store.
9. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
10. The protocol server returns an **Entity** object to the protocol client.

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetEntityWithNameAndNamespace xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <namespace>example.com</namespace>
5. <name>Customer</name>
6. <partitionId>00000000-0000-0000-0000-000000000000</partitionId>
7. </GetEntityWithNameAndNamespace>
8. </s:Body>
9. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetEntityWithNameAndNamespaceResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <GetEntityWithNameAndNamespaceResult xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>1</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </GetEntityWithNameAndNamespaceResult>
24. </GetEntityWithNameAndNamespaceResponse>
25. </s:Body>
26. </s:Envelope>

## Creating Properties for MetadataObjects

This example shows how a user can create [**Properties**](#gt_f930baab-25f1-4142-bced-5effc9f62d45) for an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The concepts can be applied to any other [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The example assumes that the preceding examples have 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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
2. BDCServiceReference.PropertyStruct myProperty = new BDCServiceReference.PropertyStruct();
3. System.Version ver = new Version(1,0,0,0);
4. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
5. //Get the entity object using the name and namespace
6. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
7. //Setup the Property object
8. myProperty.name = "CustomerAlternateName";
9. myProperty.typeName = "System.String";
10. myProperty.settingId = null;
11. //Add the custom property to the entity object
12. myClient.SaveProperty(myEntity, myProperty);

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>1</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </metadataObjectStruct>
24. <propertyStruct xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
25. <a:needsTypeReflectionResolution>false</a:needsTypeReflectionResolution>
26. <a:wcfMarshallableValue i:nil="true"/>
27. <a:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
28. <a:wcfMarshallableValueTypeName i:nil="true"/>
29. <a:metadataObjectId>0</a:metadataObjectId>
30. <a:name>CustomerAltName</a:name>
31. <a:settingId i:nil="true"/>
32. <a:typeName>System.String</a:typeName>
33. </propertyStruct>
34. </SaveProperty>
35. </s:Body>
36. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
4. </s:Body>
5. </s:Envelope>

## Adding Localized Names for MetadataObjects

This example shows how a user can add a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The concepts can be applied to any other [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The example assumes that the preceding examples have been successfully executed and that the user wants to create the localized name for [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** with the name "Customer" and the namespace "example.com".
2. The protocol client calls the **SaveLocalizedName** method as shown in the following code segment:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
2. System.Version ver = new Version(1,0,0,0);
3. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
4. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
6. myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
7. The protocol server checks whether an Entity with name "Customer" and namespace "example.com" exists in the Metadata store.
8. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Customer</a:name>
8. <a:objectVersion>1</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </metadataObjectStruct>
24. <lcid>2058</lcid>
25. <name>Cliente</name>
26. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
27. </SaveLocalizedName>
28. </s:Body>
29. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SaveLocalizedNameResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
4. </s:Body>
5. </s:Envelope>

## Updating an Entity

This example illustrates how a user can update an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
2. System.Version ver = new Version(1,1,0,0);
3. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
4. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
6. // Set the name property to "Buyer"
7. myEntity.name = "Buyer";
8. // Call update method.
9. myClient.Update(myEntity);
10. The protocol server checks if the **Entity** exists in the metadata store.
11. If it exists, the protocol server updates all the name attribute of the **Entity** with the supplied value.

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Buyer</a:name>
8. <a:objectVersion>2</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </metadataObjectStruct>
24. </Update>
25. </s:Body>
26. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <UpdateResult i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Buyer</a:name>
8. <a:objectVersion>3</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </UpdateResult>
24. </UpdateResponse>
25. </s:Body>
26. </s:Envelope>

## Deleting an Entity

This example illustrates how a user can delete an [**Entity**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

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:
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /\*\*\*\*\* Any implementation-specific impersonation logic goes here \*\*\*\*\*/

1. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
2. System.Version ver = new Version(1, 1);
3. Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
4. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer", myPartition);
5. myClient.Delete(myEntity);
6. The protocol server checks if the Entity exists in the Metadata store.
7. If it exists, the protocol server deletes the Entity from the Metadata store.

**Request body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
4. <metadataObjectStruct i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:id>135</a:id>
6. <a:isCached>true</a:isCached>
7. <a:name>Buyer</a:name>
8. <a:objectVersion>3</a:objectVersion>
9. <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
10. <a:active>true</a:active>
11. <a:lobSystemId>122</a:lobSystemId>
12. <a:modelId>0</a:modelId>
13. <a:namespace>example.com</a:namespace>
14. <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
15. <b:\_Build>0</b:\_Build>
16. <b:\_Major>1</b:\_Major>
17. <b:\_Minor>0</b:\_Minor>
18. <b:\_Revision>0</b:\_Revision>
19. </a:version>
20. <a:cacheUsage>Default</a:cacheUsage>
21. <a:description i:nil="true"/>
22. <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
23. </metadataObjectStruct>
24. </Delete>
25. </s:Body>
26. </s:Envelope>

**Response body**

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
4. </s:Body>
5. </s:Envelope>

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

None

# Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

1. <?xml version="1.0" encoding="UTF-8"?>
2. <wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://www.microsoft.com/Office/2009/BusinessDataCatalog" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
3. <wsdl:types>
4. <xs:schema xmlns:tns4="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports" targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
6. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
7. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
8. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants"/>
9. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
10. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
11. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
12. <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
13. <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
14. <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
15. </xs:schema>
16. </wsdl:types>
17. <wsdl:portType name="BusinessDataCatalogSharedService">
18. <wsdl:operation name="GetServiceApplicationId">
19. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage"/>
20. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage"/>
21. </wsdl:operation>
22. <wsdl:operation name="GetAllPartitionIds">
23. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage"/>
24. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage"/>
25. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_AccessDeniedExceptionFault\_FaultMessage"/>
26. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_BdcExceptionStateFault\_FaultMessage"/>
27. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InvalidOperationExceptionFault\_FaultMessage"/>
28. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_MetadataExceptionStateFault\_FaultMessage"/>
29. </wsdl:operation>
30. <wsdl:operation name="ReadSlicedXml">
31. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage"/>
32. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage"/>
33. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_AccessDeniedExceptionFault\_FaultMessage"/>
34. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentExceptionFault\_FaultMessage"/>
35. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentNullExceptionFault\_FaultMessage"/>
36. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
37. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_BdcExceptionStateFault\_FaultMessage"/>
38. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InvalidOperationExceptionFault\_FaultMessage"/>
39. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_MetadataExceptionStateFault\_FaultMessage"/>
40. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
41. </wsdl:operation>
42. <wsdl:operation name="WriteSlicedXml">
43. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage"/>
44. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage"/>
45. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage"/>
46. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage"/>
47. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage"/>
48. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
49. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage"/>
50. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage"/>
51. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage"/>
52. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
53. </wsdl:operation>
54. <wsdl:operation name="HaveRights">
55. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InputMessage"/>
56. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse" message="tns:BusinessDataCatalogSharedService\_HaveRights\_OutputMessage"/>
57. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentExceptionFault\_FaultMessage"/>
58. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentNullExceptionFault\_FaultMessage"/>
59. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
60. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_BdcExceptionStateFault\_FaultMessage"/>
61. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InvalidOperationExceptionFault\_FaultMessage"/>
62. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_MetadataExceptionStateFault\_FaultMessage"/>
63. </wsdl:operation>
64. <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
65. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage"/>
66. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage"/>
67. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage"/>
68. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage"/>
69. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
70. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage"/>
71. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage"/>
72. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage"/>
73. </wsdl:operation>
74. <wsdl:operation name="GetAllLocalizedNames">
75. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage"/>
76. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage"/>
77. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentExceptionFault\_FaultMessage"/>
78. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage"/>
79. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
80. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_BdcExceptionStateFault\_FaultMessage"/>
81. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage"/>
82. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_MetadataExceptionStateFault\_FaultMessage"/>
83. </wsdl:operation>
84. <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
85. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage"/>
86. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage"/>
87. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage"/>
88. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage"/>
89. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
90. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage"/>
91. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage"/>
92. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage"/>
93. </wsdl:operation>
94. <wsdl:operation name="GetAllProperties">
95. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage"/>
96. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage"/>
97. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentExceptionFault\_FaultMessage"/>
98. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentNullExceptionFault\_FaultMessage"/>
99. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
100. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_BdcExceptionStateFault\_FaultMessage"/>
101. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InvalidOperationExceptionFault\_FaultMessage"/>
102. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_MetadataExceptionStateFault\_FaultMessage"/>
103. </wsdl:operation>
104. <wsdl:operation name="SaveLocalizedName">
105. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage"/>
106. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage"/>
107. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentExceptionFault\_FaultMessage"/>
108. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage"/>
109. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
110. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_BdcExceptionStateFault\_FaultMessage"/>
111. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage"/>
112. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_MetadataExceptionStateFault\_FaultMessage"/>
113. </wsdl:operation>
114. <wsdl:operation name="ClearLocalizedNames">
115. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage"/>
116. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage"/>
117. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentExceptionFault\_FaultMessage"/>
118. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage"/>
119. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
120. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_BdcExceptionStateFault\_FaultMessage"/>
121. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage"/>
122. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_MetadataExceptionStateFault\_FaultMessage"/>
123. </wsdl:operation>
124. <wsdl:operation name="RemoveLocalizedName">
125. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage"/>
126. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage"/>
127. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentExceptionFault\_FaultMessage"/>
128. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage"/>
129. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
130. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_BdcExceptionStateFault\_FaultMessage"/>
131. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage"/>
132. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_MetadataExceptionStateFault\_FaultMessage"/>
133. </wsdl:operation>
134. <wsdl:operation name="SaveProperty">
135. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InputMessage"/>
136. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage"/>
137. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentExceptionFault\_FaultMessage"/>
138. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentNullExceptionFault\_FaultMessage"/>
139. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
140. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_BdcExceptionStateFault\_FaultMessage"/>
141. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InvalidOperationExceptionFault\_FaultMessage"/>
142. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_MetadataExceptionStateFault\_FaultMessage"/>
143. </wsdl:operation>
144. <wsdl:operation name="ClearProperties">
145. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InputMessage"/>
146. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage"/>
147. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentExceptionFault\_FaultMessage"/>
148. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentNullExceptionFault\_FaultMessage"/>
149. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
150. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_BdcExceptionStateFault\_FaultMessage"/>
151. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InvalidOperationExceptionFault\_FaultMessage"/>
152. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_MetadataExceptionStateFault\_FaultMessage"/>
153. </wsdl:operation>
154. <wsdl:operation name="RemoveProperty">
155. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage"/>
156. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage"/>
157. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentExceptionFault\_FaultMessage"/>
158. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentNullExceptionFault\_FaultMessage"/>
159. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
160. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_BdcExceptionStateFault\_FaultMessage"/>
161. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InvalidOperationExceptionFault\_FaultMessage"/>
162. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_MetadataExceptionStateFault\_FaultMessage"/>
163. </wsdl:operation>
164. <wsdl:operation name="GetAccessControlEntries">
165. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage"/>
166. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage"/>
167. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage"/>
168. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage"/>
169. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
170. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage"/>
171. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage"/>
172. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage"/>
173. </wsdl:operation>
174. <wsdl:operation name="SetAccessControlEntries">
175. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage"/>
176. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage"/>
177. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage"/>
178. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage"/>
179. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
180. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage"/>
181. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage"/>
182. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage"/>
183. </wsdl:operation>
184. <wsdl:operation name="MetadataObjectCreate">
185. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage"/>
186. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage"/>
187. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentExceptionFault\_FaultMessage"/>
188. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
189. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
190. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_BdcExceptionStateFault\_FaultMessage"/>
191. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
192. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_MetadataExceptionStateFault\_FaultMessage"/>
193. </wsdl:operation>
194. <wsdl:operation name="Update">
195. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService\_Update\_InputMessage"/>
196. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService\_Update\_OutputMessage"/>
197. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage"/>
198. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage"/>
199. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
200. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage"/>
201. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage"/>
202. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage"/>
203. </wsdl:operation>
204. <wsdl:operation name="Delete">
205. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService\_Delete\_InputMessage"/>
206. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse" message="tns:BusinessDataCatalogSharedService\_Delete\_OutputMessage"/>
207. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentExceptionFault\_FaultMessage"/>
208. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentNullExceptionFault\_FaultMessage"/>
209. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
210. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_BdcExceptionStateFault\_FaultMessage"/>
211. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_InvalidOperationExceptionFault\_FaultMessage"/>
212. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_MetadataExceptionStateFault\_FaultMessage"/>
213. </wsdl:operation>
214. <wsdl:operation name="MetadataObjectMergeXml">
215. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage"/>
216. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage"/>
217. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentExceptionFault\_FaultMessage"/>
218. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentNullExceptionFault\_FaultMessage"/>
219. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
220. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_BdcExceptionStateFault\_FaultMessage"/>
221. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InvalidOperationExceptionFault\_FaultMessage"/>
222. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_MetadataExceptionStateFault\_FaultMessage"/>
223. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
224. </wsdl:operation>
225. <wsdl:operation name="MetadataObjectReadXml">
226. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage"/>
227. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage"/>
228. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentExceptionFault\_FaultMessage"/>
229. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
230. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
231. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_BdcExceptionStateFault\_FaultMessage"/>
232. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
233. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
234. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
235. </wsdl:operation>
236. <wsdl:operation name="MetadataObjectWriteXml">
237. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage"/>
238. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage"/>
239. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentExceptionFault\_FaultMessage"/>
240. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentNullExceptionFault\_FaultMessage"/>
241. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
242. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_BdcExceptionStateFault\_FaultMessage"/>
243. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InvalidOperationExceptionFault\_FaultMessage"/>
244. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_MetadataExceptionStateFault\_FaultMessage"/>
245. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
246. </wsdl:operation>
247. <wsdl:operation name="CopyAclAcrossChildren">
248. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage"/>
249. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage"/>
250. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentExceptionFault\_FaultMessage"/>
251. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentNullExceptionFault\_FaultMessage"/>
252. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
253. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_BdcExceptionStateFault\_FaultMessage"/>
254. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InvalidOperationExceptionFault\_FaultMessage"/>
255. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_MetadataExceptionStateFault\_FaultMessage"/>
256. </wsdl:operation>
257. <wsdl:operation name="CopyAclAcrossChildrenForSetting">
258. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage"/>
259. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage"/>
260. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentExceptionFault\_FaultMessage"/>
261. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentNullExceptionFault\_FaultMessage"/>
262. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
263. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_BdcExceptionStateFault\_FaultMessage"/>
264. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InvalidOperationExceptionFault\_FaultMessage"/>
265. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_MetadataExceptionStateFault\_FaultMessage"/>
266. </wsdl:operation>
267. <wsdl:operation name="CopyAclToSetting">
268. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage"/>
269. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage"/>
270. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentExceptionFault\_FaultMessage"/>
271. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentNullExceptionFault\_FaultMessage"/>
272. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
273. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_BdcExceptionStateFault\_FaultMessage"/>
274. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InvalidOperationExceptionFault\_FaultMessage"/>
275. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_MetadataExceptionStateFault\_FaultMessage"/>
276. </wsdl:operation>
277. <wsdl:operation name="GetCacheInvalidationRecordsSince">
278. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage"/>
279. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage"/>
280. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_AccessDeniedExceptionFault\_FaultMessage"/>
281. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentExceptionFault\_FaultMessage"/>
282. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentNullExceptionFault\_FaultMessage"/>
283. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
284. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_BdcExceptionStateFault\_FaultMessage"/>
285. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InvalidOperationExceptionFault\_FaultMessage"/>
286. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_MetadataExceptionStateFault\_FaultMessage"/>
287. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_PackageFormatExceptionStateFault\_FaultMessage"/>
288. </wsdl:operation>
289. <wsdl:operation name="ImportPackage">
290. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InputMessage"/>
291. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage"/>
292. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentExceptionFault\_FaultMessage"/>
293. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentNullExceptionFault\_FaultMessage"/>
294. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
295. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_BdcExceptionStateFault\_FaultMessage"/>
296. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InvalidOperationExceptionFault\_FaultMessage"/>
297. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_MetadataExceptionStateFault\_FaultMessage"/>
298. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_PackageFormatExceptionStateFault\_FaultMessage"/>
299. </wsdl:operation>
300. <wsdl:operation name="ImportPackageWithProgress">
301. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage"/>
302. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage"/>
303. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentExceptionFault\_FaultMessage"/>
304. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentNullExceptionFault\_FaultMessage"/>
305. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
306. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_BdcExceptionStateFault\_FaultMessage"/>
307. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InvalidOperationExceptionFault\_FaultMessage"/>
308. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_MetadataExceptionStateFault\_FaultMessage"/>
309. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_PackageFormatExceptionStateFault\_FaultMessage"/>
310. </wsdl:operation>
311. <wsdl:operation name="GetImportProgress">
312. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage"/>
313. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage"/>
314. </wsdl:operation>
315. <wsdl:operation name="ExportPackage">
316. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InputMessage"/>
317. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage"/>
318. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentExceptionFault\_FaultMessage"/>
319. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentNullExceptionFault\_FaultMessage"/>
320. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
321. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_BdcExceptionStateFault\_FaultMessage"/>
322. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage"/>
323. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_MetadataExceptionStateFault\_FaultMessage"/>
324. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_PackageFormatExceptionStateFault\_FaultMessage"/>
325. </wsdl:operation>
326. <wsdl:operation name="GetModelById">
327. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InputMessage"/>
328. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelById\_OutputMessage"/>
329. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentExceptionFault\_FaultMessage"/>
330. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentNullExceptionFault\_FaultMessage"/>
331. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
332. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_BdcExceptionStateFault\_FaultMessage"/>
333. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InvalidOperationExceptionFault\_FaultMessage"/>
334. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_MetadataExceptionStateFault\_FaultMessage"/>
335. </wsdl:operation>
336. <wsdl:operation name="GetModelsByName">
337. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage"/>
338. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage"/>
339. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentExceptionFault\_FaultMessage"/>
340. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentNullExceptionFault\_FaultMessage"/>
341. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
342. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_BdcExceptionStateFault\_FaultMessage"/>
343. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InvalidOperationExceptionFault\_FaultMessage"/>
344. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_MetadataExceptionStateFault\_FaultMessage"/>
345. </wsdl:operation>
346. <wsdl:operation name="GetModelByName">
347. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InputMessage"/>
348. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage"/>
349. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentExceptionFault\_FaultMessage"/>
350. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentNullExceptionFault\_FaultMessage"/>
351. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
352. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_BdcExceptionStateFault\_FaultMessage"/>
353. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InvalidOperationExceptionFault\_FaultMessage"/>
354. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_MetadataExceptionStateFault\_FaultMessage"/>
355. </wsdl:operation>
356. <wsdl:operation name="GetModelsByEntityId">
357. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage"/>
358. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage"/>
359. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentExceptionFault\_FaultMessage"/>
360. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentNullExceptionFault\_FaultMessage"/>
361. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
362. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_BdcExceptionStateFault\_FaultMessage"/>
363. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InvalidOperationExceptionFault\_FaultMessage"/>
364. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_MetadataExceptionStateFault\_FaultMessage"/>
365. </wsdl:operation>
366. <wsdl:operation name="AddEntityToModel">
367. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage"/>
368. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage"/>
369. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentExceptionFault\_FaultMessage"/>
370. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentNullExceptionFault\_FaultMessage"/>
371. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
372. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_BdcExceptionStateFault\_FaultMessage"/>
373. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InvalidOperationExceptionFault\_FaultMessage"/>
374. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_MetadataExceptionStateFault\_FaultMessage"/>
375. </wsdl:operation>
376. <wsdl:operation name="RemoveEntityFromModel">
377. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage"/>
378. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage"/>
379. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentExceptionFault\_FaultMessage"/>
380. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentNullExceptionFault\_FaultMessage"/>
381. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
382. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_BdcExceptionStateFault\_FaultMessage"/>
383. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InvalidOperationExceptionFault\_FaultMessage"/>
384. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_MetadataExceptionStateFault\_FaultMessage"/>
385. </wsdl:operation>
386. <wsdl:operation name="DeleteNoCascade">
387. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage"/>
388. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage"/>
389. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentExceptionFault\_FaultMessage"/>
390. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentNullExceptionFault\_FaultMessage"/>
391. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
392. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_BdcExceptionStateFault\_FaultMessage"/>
393. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InvalidOperationExceptionFault\_FaultMessage"/>
394. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_MetadataExceptionStateFault\_FaultMessage"/>
395. </wsdl:operation>
396. <wsdl:operation name="ModelReadXml">
397. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage"/>
398. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage"/>
399. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentExceptionFault\_FaultMessage"/>
400. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
401. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
402. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_BdcExceptionStateFault\_FaultMessage"/>
403. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
404. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
405. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
406. </wsdl:operation>
407. <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
408. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage"/>
409. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage"/>
410. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentExceptionFault\_FaultMessage"/>
411. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage"/>
412. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
413. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_BdcExceptionStateFault\_FaultMessage"/>
414. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage"/>
415. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_MetadataExceptionStateFault\_FaultMessage"/>
416. </wsdl:operation>
417. <wsdl:operation name="GetLobSystemAllAssembliesBytes">
418. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage"/>
419. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage"/>
420. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentExceptionFault\_FaultMessage"/>
421. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentNullExceptionFault\_FaultMessage"/>
422. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
423. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_BdcExceptionStateFault\_FaultMessage"/>
424. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InvalidOperationExceptionFault\_FaultMessage"/>
425. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_MetadataExceptionStateFault\_FaultMessage"/>
426. </wsdl:operation>
427. <wsdl:operation name="GetLobSystemDataByLobSystem">
428. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage"/>
429. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage"/>
430. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
431. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
432. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
433. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
434. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
435. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
436. </wsdl:operation>
437. <wsdl:operation name="SetLobSystemDataByLobSystemId">
438. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage"/>
439. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage"/>
440. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentExceptionFault\_FaultMessage"/>
441. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage"/>
442. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
443. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_BdcExceptionStateFault\_FaultMessage"/>
444. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage"/>
445. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage"/>
446. </wsdl:operation>
447. <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
448. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage"/>
449. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage"/>
450. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentExceptionFault\_FaultMessage"/>
451. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentNullExceptionFault\_FaultMessage"/>
452. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
453. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_BdcExceptionStateFault\_FaultMessage"/>
454. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InvalidOperationExceptionFault\_FaultMessage"/>
455. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_MetadataExceptionStateFault\_FaultMessage"/>
456. </wsdl:operation>
457. <wsdl:operation name="GetLobSystemByName">
458. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage"/>
459. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage"/>
460. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentExceptionFault\_FaultMessage"/>
461. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentNullExceptionFault\_FaultMessage"/>
462. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
463. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_BdcExceptionStateFault\_FaultMessage"/>
464. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InvalidOperationExceptionFault\_FaultMessage"/>
465. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_MetadataExceptionStateFault\_FaultMessage"/>
466. </wsdl:operation>
467. <wsdl:operation name="GetLobSystemsLikeName">
468. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage"/>
469. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage"/>
470. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentExceptionFault\_FaultMessage"/>
471. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentNullExceptionFault\_FaultMessage"/>
472. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
473. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_BdcExceptionStateFault\_FaultMessage"/>
474. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InvalidOperationExceptionFault\_FaultMessage"/>
475. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_MetadataExceptionStateFault\_FaultMessage"/>
476. </wsdl:operation>
477. <wsdl:operation name="GetLobSystemById">
478. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage"/>
479. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage"/>
480. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentExceptionFault\_FaultMessage"/>
481. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentNullExceptionFault\_FaultMessage"/>
482. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
483. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_BdcExceptionStateFault\_FaultMessage"/>
484. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InvalidOperationExceptionFault\_FaultMessage"/>
485. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_MetadataExceptionStateFault\_FaultMessage"/>
486. </wsdl:operation>
487. <wsdl:operation name="GetEntityCount">
488. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage"/>
489. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage"/>
490. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentExceptionFault\_FaultMessage"/>
491. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentNullExceptionFault\_FaultMessage"/>
492. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
493. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_BdcExceptionStateFault\_FaultMessage"/>
494. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InvalidOperationExceptionFault\_FaultMessage"/>
495. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_MetadataExceptionStateFault\_FaultMessage"/>
496. </wsdl:operation>
497. <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
498. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage"/>
499. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage"/>
500. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
501. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
502. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
503. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
504. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
505. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
506. </wsdl:operation>
507. <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
508. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage"/>
509. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage"/>
510. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
511. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
512. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
513. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
514. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
515. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
516. </wsdl:operation>
517. <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
518. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage"/>
519. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage"/>
520. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
521. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
522. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
523. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
524. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
525. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
526. </wsdl:operation>
527. <wsdl:operation name="GetLobSystemInstancesForLobSystem">
528. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage"/>
529. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage"/>
530. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
531. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
532. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
533. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
534. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
535. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
536. </wsdl:operation>
537. <wsdl:operation name="GetLobSystemInstanceById">
538. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage"/>
539. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage"/>
540. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentExceptionFault\_FaultMessage"/>
541. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentNullExceptionFault\_FaultMessage"/>
542. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
543. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_BdcExceptionStateFault\_FaultMessage"/>
544. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InvalidOperationExceptionFault\_FaultMessage"/>
545. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_MetadataExceptionStateFault\_FaultMessage"/>
546. </wsdl:operation>
547. <wsdl:operation name="GetDataClassesForSystem">
548. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage"/>
549. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage"/>
550. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentExceptionFault\_FaultMessage"/>
551. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
552. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
553. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_BdcExceptionStateFault\_FaultMessage"/>
554. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
555. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_MetadataExceptionStateFault\_FaultMessage"/>
556. </wsdl:operation>
557. <wsdl:operation name="GetDataClassById">
558. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage"/>
559. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage"/>
560. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentExceptionFault\_FaultMessage"/>
561. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentNullExceptionFault\_FaultMessage"/>
562. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
563. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_BdcExceptionStateFault\_FaultMessage"/>
564. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InvalidOperationExceptionFault\_FaultMessage"/>
565. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_MetadataExceptionStateFault\_FaultMessage"/>
566. </wsdl:operation>
567. <wsdl:operation name="GetEntitiesReferencedByModelId">
568. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage"/>
569. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage"/>
570. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentExceptionFault\_FaultMessage"/>
571. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentNullExceptionFault\_FaultMessage"/>
572. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
573. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_BdcExceptionStateFault\_FaultMessage"/>
574. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InvalidOperationExceptionFault\_FaultMessage"/>
575. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_MetadataExceptionStateFault\_FaultMessage"/>
576. </wsdl:operation>
577. <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
578. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage"/>
579. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage"/>
580. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentExceptionFault\_FaultMessage"/>
581. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage"/>
582. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
583. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_BdcExceptionStateFault\_FaultMessage"/>
584. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage"/>
585. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage"/>
586. </wsdl:operation>
587. <wsdl:operation name="GetEntityWithNameAndNamespace">
588. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage"/>
589. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage"/>
590. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentExceptionFault\_FaultMessage"/>
591. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage"/>
592. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
593. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_BdcExceptionStateFault\_FaultMessage"/>
594. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage"/>
595. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage"/>
596. </wsdl:operation>
597. <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
598. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage"/>
599. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage"/>
600. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentExceptionFault\_FaultMessage"/>
601. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentNullExceptionFault\_FaultMessage"/>
602. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
603. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_BdcExceptionStateFault\_FaultMessage"/>
604. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InvalidOperationExceptionFault\_FaultMessage"/>
605. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_MetadataExceptionStateFault\_FaultMessage"/>
606. </wsdl:operation>
607. <wsdl:operation name="GetEntitiesForSystem">
608. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage"/>
609. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage"/>
610. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentExceptionFault\_FaultMessage"/>
611. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
612. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
613. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_BdcExceptionStateFault\_FaultMessage"/>
614. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
615. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_MetadataExceptionStateFault\_FaultMessage"/>
616. </wsdl:operation>
617. <wsdl:operation name="GetEntitiesForAssociationAndRole">
618. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage"/>
619. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage"/>
620. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage"/>
621. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
622. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
623. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage"/>
624. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
625. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
626. </wsdl:operation>
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628. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage"/>
629. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage"/>
630. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentExceptionFault\_FaultMessage"/>
631. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
632. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
633. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_BdcExceptionStateFault\_FaultMessage"/>
634. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
635. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
636. </wsdl:operation>
637. <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
638. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage"/>
639. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage"/>
640. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage"/>
641. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
642. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
643. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage"/>
644. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
645. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
646. </wsdl:operation>
647. <wsdl:operation name="GetEntityById">
648. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InputMessage"/>
649. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage"/>
650. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentExceptionFault\_FaultMessage"/>
651. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentNullExceptionFault\_FaultMessage"/>
652. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
653. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_BdcExceptionStateFault\_FaultMessage"/>
654. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InvalidOperationExceptionFault\_FaultMessage"/>
655. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_MetadataExceptionStateFault\_FaultMessage"/>
656. </wsdl:operation>
657. <wsdl:operation name="EntityCreate">
658. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InputMessage"/>
659. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage"/>
660. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentExceptionFault\_FaultMessage"/>
661. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
662. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
663. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_BdcExceptionStateFault\_FaultMessage"/>
664. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
665. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_MetadataExceptionStateFault\_FaultMessage"/>
666. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage"/>
667. </wsdl:operation>
668. <wsdl:operation name="Activate">
669. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService\_Activate\_InputMessage"/>
670. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse" message="tns:BusinessDataCatalogSharedService\_Activate\_OutputMessage"/>
671. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentExceptionFault\_FaultMessage"/>
672. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentNullExceptionFault\_FaultMessage"/>
673. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
674. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_BdcExceptionStateFault\_FaultMessage"/>
675. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_InvalidOperationExceptionFault\_FaultMessage"/>
676. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_MetadataExceptionStateFault\_FaultMessage"/>
677. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_PackageFormatExceptionStateFault\_FaultMessage"/>
678. </wsdl:operation>
679. <wsdl:operation name="Deactivate">
680. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InputMessage"/>
681. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse" message="tns:BusinessDataCatalogSharedService\_Deactivate\_OutputMessage"/>
682. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentExceptionFault\_FaultMessage"/>
683. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentNullExceptionFault\_FaultMessage"/>
684. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
685. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_BdcExceptionStateFault\_FaultMessage"/>
686. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InvalidOperationExceptionFault\_FaultMessage"/>
687. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_MetadataExceptionStateFault\_FaultMessage"/>
688. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_PackageFormatExceptionStateFault\_FaultMessage"/>
689. </wsdl:operation>
690. <wsdl:operation name="BulkSwitchActiveOrValidate">
691. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage"/>
692. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage"/>
693. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentExceptionFault\_FaultMessage"/>
694. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentNullExceptionFault\_FaultMessage"/>
695. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
696. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_BdcExceptionStateFault\_FaultMessage"/>
697. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InvalidOperationExceptionFault\_FaultMessage"/>
698. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_MetadataExceptionStateFault\_FaultMessage"/>
699. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_PackageFormatExceptionStateFault\_FaultMessage"/>
700. </wsdl:operation>
701. <wsdl:operation name="GetActionById">
702. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InputMessage"/>
703. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionById\_OutputMessage"/>
704. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentExceptionFault\_FaultMessage"/>
705. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentNullExceptionFault\_FaultMessage"/>
706. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
707. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_BdcExceptionStateFault\_FaultMessage"/>
708. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InvalidOperationExceptionFault\_FaultMessage"/>
709. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_MetadataExceptionStateFault\_FaultMessage"/>
710. </wsdl:operation>
711. <wsdl:operation name="GetActionsForEntity">
712. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage"/>
713. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage"/>
714. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentExceptionFault\_FaultMessage"/>
715. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
716. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
717. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_BdcExceptionStateFault\_FaultMessage"/>
718. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
719. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
720. </wsdl:operation>
721. <wsdl:operation name="GetActionParameterById">
722. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage"/>
723. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage"/>
724. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentExceptionFault\_FaultMessage"/>
725. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentNullExceptionFault\_FaultMessage"/>
726. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
727. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_BdcExceptionStateFault\_FaultMessage"/>
728. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InvalidOperationExceptionFault\_FaultMessage"/>
729. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_MetadataExceptionStateFault\_FaultMessage"/>
730. </wsdl:operation>
731. <wsdl:operation name="GetActionParametersForAction">
732. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage"/>
733. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage"/>
734. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentExceptionFault\_FaultMessage"/>
735. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentNullExceptionFault\_FaultMessage"/>
736. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
737. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_BdcExceptionStateFault\_FaultMessage"/>
738. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InvalidOperationExceptionFault\_FaultMessage"/>
739. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_MetadataExceptionStateFault\_FaultMessage"/>
740. </wsdl:operation>
741. <wsdl:operation name="GetIdentifierById">
742. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage"/>
743. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage"/>
744. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentExceptionFault\_FaultMessage"/>
745. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentNullExceptionFault\_FaultMessage"/>
746. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
747. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_BdcExceptionStateFault\_FaultMessage"/>
748. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InvalidOperationExceptionFault\_FaultMessage"/>
749. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_MetadataExceptionStateFault\_FaultMessage"/>
750. </wsdl:operation>
751. <wsdl:operation name="GetIdentifiersForEntity">
752. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage"/>
753. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage"/>
754. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentExceptionFault\_FaultMessage"/>
755. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
756. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
757. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_BdcExceptionStateFault\_FaultMessage"/>
758. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
759. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
760. </wsdl:operation>
761. <wsdl:operation name="GetMethodById">
762. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InputMessage"/>
763. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage"/>
764. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentExceptionFault\_FaultMessage"/>
765. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentNullExceptionFault\_FaultMessage"/>
766. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
767. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_BdcExceptionStateFault\_FaultMessage"/>
768. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InvalidOperationExceptionFault\_FaultMessage"/>
769. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_MetadataExceptionStateFault\_FaultMessage"/>
770. </wsdl:operation>
771. <wsdl:operation name="GetMethodsForDataClass">
772. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage"/>
773. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage"/>
774. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
775. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
776. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
777. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
778. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
779. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
780. </wsdl:operation>
781. <wsdl:operation name="IsMethodInstantiated">
782. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage"/>
783. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage"/>
784. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentExceptionFault\_FaultMessage"/>
785. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentNullExceptionFault\_FaultMessage"/>
786. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
787. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_BdcExceptionStateFault\_FaultMessage"/>
788. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InvalidOperationExceptionFault\_FaultMessage"/>
789. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_MetadataExceptionStateFault\_FaultMessage"/>
790. </wsdl:operation>
791. <wsdl:operation name="GetFilterDescriptorById">
792. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage"/>
793. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage"/>
794. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentExceptionFault\_FaultMessage"/>
795. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentNullExceptionFault\_FaultMessage"/>
796. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
797. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_BdcExceptionStateFault\_FaultMessage"/>
798. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InvalidOperationExceptionFault\_FaultMessage"/>
799. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_MetadataExceptionStateFault\_FaultMessage"/>
800. </wsdl:operation>
801. <wsdl:operation name="GetFilterDescriptorsForMethod">
802. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage"/>
803. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage"/>
804. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentExceptionFault\_FaultMessage"/>
805. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
806. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
807. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_BdcExceptionStateFault\_FaultMessage"/>
808. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
809. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
810. </wsdl:operation>
811. <wsdl:operation name="GetMethodInstanceById">
812. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage"/>
813. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage"/>
814. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentExceptionFault\_FaultMessage"/>
815. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentNullExceptionFault\_FaultMessage"/>
816. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
817. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_BdcExceptionStateFault\_FaultMessage"/>
818. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InvalidOperationExceptionFault\_FaultMessage"/>
819. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_MetadataExceptionStateFault\_FaultMessage"/>
820. </wsdl:operation>
821. <wsdl:operation name="GetMethodInstancesForDataClass">
822. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage"/>
823. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage"/>
824. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
825. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
826. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
827. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
828. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
829. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
830. </wsdl:operation>
831. <wsdl:operation name="GetMethodInstancesForMethod">
832. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage"/>
833. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage"/>
834. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentExceptionFault\_FaultMessage"/>
835. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
836. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
837. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_BdcExceptionStateFault\_FaultMessage"/>
838. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
839. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
840. </wsdl:operation>
841. <wsdl:operation name="CheckPathInMethodInstances">
842. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage"/>
843. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage"/>
844. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentExceptionFault\_FaultMessage"/>
845. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentNullExceptionFault\_FaultMessage"/>
846. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_BdcExceptionStateFault\_FaultMessage"/>
847. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_MetadataExceptionStateFault\_FaultMessage"/>
848. </wsdl:operation>
849. <wsdl:operation name="GetParameterById">
850. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InputMessage"/>
851. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage"/>
852. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentExceptionFault\_FaultMessage"/>
853. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentNullExceptionFault\_FaultMessage"/>
854. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
855. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_BdcExceptionStateFault\_FaultMessage"/>
856. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InvalidOperationExceptionFault\_FaultMessage"/>
857. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_MetadataExceptionStateFault\_FaultMessage"/>
858. </wsdl:operation>
859. <wsdl:operation name="GetParametersForMethod">
860. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage"/>
861. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage"/>
862. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentExceptionFault\_FaultMessage"/>
863. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
864. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
865. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_BdcExceptionStateFault\_FaultMessage"/>
866. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
867. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
868. </wsdl:operation>
869. <wsdl:operation name="IsParameterReferencedByMethodInstance">
870. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage"/>
871. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage"/>
872. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentExceptionFault\_FaultMessage"/>
873. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage"/>
874. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
875. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_BdcExceptionStateFault\_FaultMessage"/>
876. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage"/>
877. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_MetadataExceptionStateFault\_FaultMessage"/>
878. </wsdl:operation>
879. <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
880. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage"/>
881. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage"/>
882. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentExceptionFault\_FaultMessage"/>
883. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
884. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
885. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_BdcExceptionStateFault\_FaultMessage"/>
886. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
887. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
888. </wsdl:operation>
889. <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
890. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage"/>
891. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage"/>
892. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
893. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
894. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
895. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
896. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
897. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
898. </wsdl:operation>
899. <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
900. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage"/>
901. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage"/>
902. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentExceptionFault\_FaultMessage"/>
903. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage"/>
904. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
905. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_BdcExceptionStateFault\_FaultMessage"/>
906. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage"/>
907. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_MetadataExceptionStateFault\_FaultMessage"/>
908. </wsdl:operation>
909. <wsdl:operation name="GetTypeDescriptorById">
910. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage"/>
911. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage"/>
912. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentExceptionFault\_FaultMessage"/>
913. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentNullExceptionFault\_FaultMessage"/>
914. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
915. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_BdcExceptionStateFault\_FaultMessage"/>
916. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InvalidOperationExceptionFault\_FaultMessage"/>
917. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_MetadataExceptionStateFault\_FaultMessage"/>
918. </wsdl:operation>
919. <wsdl:operation name="GetRootTypeDescriptorForParameter">
920. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage"/>
921. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage"/>
922. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentExceptionFault\_FaultMessage"/>
923. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
924. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
925. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_BdcExceptionStateFault\_FaultMessage"/>
926. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
927. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
928. </wsdl:operation>
929. <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
930. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage"/>
931. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage"/>
932. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentExceptionFault\_FaultMessage"/>
933. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
934. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
935. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_BdcExceptionStateFault\_FaultMessage"/>
936. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
937. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
938. </wsdl:operation>
939. <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
940. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage"/>
941. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage"/>
942. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
943. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
944. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
945. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
946. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
947. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
948. </wsdl:operation>
949. <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
950. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage"/>
951. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage"/>
952. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
953. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
954. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
955. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
956. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
957. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
958. </wsdl:operation>
959. <wsdl:operation name="GetDefaultValuesForTypeDescriptor">
960. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage"/>
961. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage"/>
962. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
963. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
964. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
965. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
966. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
967. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
968. </wsdl:operation>
969. <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
970. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage"/>
971. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage"/>
972. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
973. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
974. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
975. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
976. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
977. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
978. </wsdl:operation>
979. <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
980. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage"/>
981. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage"/>
982. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
983. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
984. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
985. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
986. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
987. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
988. </wsdl:operation>
989. <wsdl:operation name="GetLevelForTypeDescriptor">
990. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage"/>
991. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage"/>
992. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
993. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
994. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
995. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
996. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
997. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
998. </wsdl:operation>
999. <wsdl:operation name="TypeDescriptorCreate">
1000. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage"/>
1001. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage"/>
1002. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage"/>
1003. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
1004. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1005. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage"/>
1006. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
1007. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage"/>
1008. </wsdl:operation>
1009. <wsdl:operation name="TypeDescriptorMergeXml">
1010. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage"/>
1011. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage"/>
1012. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage"/>
1013. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage"/>
1014. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1015. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage"/>
1016. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage"/>
1017. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage"/>
1018. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
1019. </wsdl:operation>
1020. <wsdl:operation name="TypeDescriptorReadXml">
1021. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage"/>
1022. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage"/>
1023. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage"/>
1024. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
1025. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1026. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage"/>
1027. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
1028. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
1029. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
1030. </wsdl:operation>
1031. <wsdl:operation name="GetAssociationById">
1032. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage"/>
1033. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage"/>
1034. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentExceptionFault\_FaultMessage"/>
1035. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentNullExceptionFault\_FaultMessage"/>
1036. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1037. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_BdcExceptionStateFault\_FaultMessage"/>
1038. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InvalidOperationExceptionFault\_FaultMessage"/>
1039. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_MetadataExceptionStateFault\_FaultMessage"/>
1040. </wsdl:operation>
1041. <wsdl:operation name="GetAssociationsForEntityAndRole">
1042. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage"/>
1043. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage"/>
1044. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentExceptionFault\_FaultMessage"/>
1045. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
1046. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1047. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_BdcExceptionStateFault\_FaultMessage"/>
1048. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
1049. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
1050. </wsdl:operation>
1051. <wsdl:operation name="GetAssociationsForDataClass">
1052. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage"/>
1053. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage"/>
1054. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
1055. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
1056. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1057. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
1058. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
1059. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
1060. </wsdl:operation>
1061. <wsdl:operation name="GetAssociationsForMethod">
1062. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage"/>
1063. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage"/>
1064. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentExceptionFault\_FaultMessage"/>
1065. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
1066. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1067. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_BdcExceptionStateFault\_FaultMessage"/>
1068. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
1069. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
1070. </wsdl:operation>
1071. <wsdl:operation name="GetAssociationMembersInRole">
1072. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage"/>
1073. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage"/>
1074. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentExceptionFault\_FaultMessage"/>
1075. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentNullExceptionFault\_FaultMessage"/>
1076. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1077. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_BdcExceptionStateFault\_FaultMessage"/>
1078. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InvalidOperationExceptionFault\_FaultMessage"/>
1079. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_MetadataExceptionStateFault\_FaultMessage"/>
1080. </wsdl:operation>
1081. <wsdl:operation name="GetAssociationGroupById">
1082. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage"/>
1083. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage"/>
1084. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentExceptionFault\_FaultMessage"/>
1085. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentNullExceptionFault\_FaultMessage"/>
1086. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1087. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_BdcExceptionStateFault\_FaultMessage"/>
1088. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InvalidOperationExceptionFault\_FaultMessage"/>
1089. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_MetadataExceptionStateFault\_FaultMessage"/>
1090. </wsdl:operation>
1091. <wsdl:operation name="GetAssociationGroupsForEntity">
1092. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage"/>
1093. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage"/>
1094. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentExceptionFault\_FaultMessage"/>
1095. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
1096. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1097. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_BdcExceptionStateFault\_FaultMessage"/>
1098. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
1099. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
1100. </wsdl:operation>
1101. <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
1102. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage"/>
1103. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage"/>
1104. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1105. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1106. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1107. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1108. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1109. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1110. </wsdl:operation>
1111. <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
1112. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage"/>
1113. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage"/>
1114. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1115. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1116. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1117. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1118. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1119. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1120. </wsdl:operation>
1121. <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
1122. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage"/>
1123. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage"/>
1124. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1125. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1126. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1127. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1128. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1129. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1130. </wsdl:operation>
1131. <wsdl:operation name="GetXmlSchemaForView">
1132. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage"/>
1133. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage"/>
1134. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentExceptionFault\_FaultMessage"/>
1135. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentNullExceptionFault\_FaultMessage"/>
1136. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1137. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_BdcExceptionStateFault\_FaultMessage"/>
1138. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InvalidOperationExceptionFault\_FaultMessage"/>
1139. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_MetadataExceptionStateFault\_FaultMessage"/>
1140. </wsdl:operation>
1141. </wsdl:portType>
1142. <wsdl:binding name="DefaultBinding\_BusinessDataCatalogSharedService" type="tns:BusinessDataCatalogSharedService">
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1144. <wsdl:operation name="GetServiceApplicationId">
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2894. </wsdl:fault>
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2924. </wsdl:fault>
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2959. <wsdl:operation name="BulkSwitchActiveOrValidate">
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2965. <soap:body use="literal"/>
2966. </wsdl:output>
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2984. </wsdl:fault>
2985. <wsdl:fault name="PackageFormatExceptionStateFault">
2986. <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
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2988. </wsdl:operation>
2989. <wsdl:operation name="GetActionById">
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2993. </wsdl:input>
2994. <wsdl:output>
2995. <soap:body use="literal"/>
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4196. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_MetadataExceptionStateFault\_FaultMessage">
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4199. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_OutputMessage">
4200. <wsdl:part name="parameters" element="tns:ActivateResponse"/>
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4202. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_PackageFormatExceptionStateFault\_FaultMessage">
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4217. <wsdl:message name="BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage">
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4226. <wsdl:message name="BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage">
4227. <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroupResponse"/>
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4229. <wsdl:message name="BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentExceptionFault\_FaultMessage">
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4247. <wsdl:message name="BusinessDataCatalogSharedService\_AddEntityToModel\_MetadataExceptionStateFault\_FaultMessage">
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4295. <wsdl:message name="BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage">
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4334. <wsdl:message name="BusinessDataCatalogSharedService\_ClearProperties\_InputMessage">
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4343. <wsdl:message name="BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage">
4344. <wsdl:part name="parameters" element="tns:ClearPropertiesResponse"/>
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4346. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentExceptionFault\_FaultMessage">
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4358. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage">
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4366. </wsdl:message>
4367. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage">
4368. <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenResponse"/>
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4383. <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSetting"/>
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4388. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_MetadataExceptionStateFault\_FaultMessage">
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4391. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage">
4392. <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSettingResponse"/>
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4394. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentExceptionFault\_FaultMessage">
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4412. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclToSetting\_MetadataExceptionStateFault\_FaultMessage">
4413. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
4414. </wsdl:message>
4415. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage">
4416. <wsdl:part name="parameters" element="tns:CopyAclToSettingResponse"/>
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4418. <wsdl:message name="BusinessDataCatalogSharedService\_Deactivate\_ArgumentExceptionFault\_FaultMessage">
4419. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
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4427. <wsdl:message name="BusinessDataCatalogSharedService\_Deactivate\_BdcExceptionStateFault\_FaultMessage">
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4431. <wsdl:part name="parameters" element="tns:Deactivate"/>
4432. </wsdl:message>
4433. <wsdl:message name="BusinessDataCatalogSharedService\_Deactivate\_InvalidOperationExceptionFault\_FaultMessage">
4434. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
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4436. <wsdl:message name="BusinessDataCatalogSharedService\_Deactivate\_MetadataExceptionStateFault\_FaultMessage">
4437. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
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4439. <wsdl:message name="BusinessDataCatalogSharedService\_Deactivate\_OutputMessage">
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4463. <wsdl:message name="BusinessDataCatalogSharedService\_Delete\_MetadataExceptionStateFault\_FaultMessage">
4464. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
4465. </wsdl:message>
4466. <wsdl:message name="BusinessDataCatalogSharedService\_Delete\_OutputMessage">
4467. <wsdl:part name="parameters" element="tns:DeleteResponse"/>
4468. </wsdl:message>
4469. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage">
4470. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
4471. </wsdl:message>
4472. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage">
4473. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
4474. </wsdl:message>
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4484. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage">
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4487. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_MetadataExceptionStateFault\_FaultMessage">
4488. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
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4490. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage">
4491. <wsdl:part name="parameters" element="tns:DeleteAssociationReferenceFromAssociationGroupResponse"/>
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4493. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage">
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4504. </wsdl:message>
4505. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage">
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4513. </wsdl:message>
4514. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage">
4515. <wsdl:part name="parameters" element="tns:DeleteDefaultValueForTypeDescriptorResponse"/>
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4536. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
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4538. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage">
4539. <wsdl:part name="parameters" element="tns:DeleteNoCascadeResponse"/>
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4541. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage">
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4543. </wsdl:message>
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4562. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage">
4563. <wsdl:part name="parameters" element="tns:DeleteProxyAssemblyForLobSystemResponse"/>
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4565. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_ArgumentExceptionFault\_FaultMessage">
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4567. </wsdl:message>
4568. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_ArgumentNullExceptionFault\_FaultMessage">
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4586. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage">
4587. <wsdl:part name="parameters" element="tns:EntityCreateResponse"/>
4588. </wsdl:message>
4589. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage">
4590. <wsdl:part xmlns:q8="Microsoft.SharePoint.BusinessData" name="detail" element="q8:PackageFormatExceptionState"/>
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4592. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_ArgumentExceptionFault\_FaultMessage">
4593. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
4594. </wsdl:message>
4595. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_ArgumentNullExceptionFault\_FaultMessage">
4596. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
4597. </wsdl:message>
4598. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
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4605. <wsdl:part name="parameters" element="tns:ExportPackage"/>
4606. </wsdl:message>
4607. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage">
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4609. </wsdl:message>
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4612. </wsdl:message>
4613. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage">
4614. <wsdl:part name="parameters" element="tns:ExportPackageResponse"/>
4615. </wsdl:message>
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4913. <wsdl:message name="BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage">
4914. <wsdl:part name="parameters" element="tns:GetAssociationGroupById"/>
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4922. <wsdl:message name="BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage">
4923. <wsdl:part name="parameters" element="tns:GetAssociationGroupByIdResponse"/>
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5480. <wsdl:message name="BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage">
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5493. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
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5495. <wsdl:message name="BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage">
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5678. <wsdl:message name="BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage">
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6165. <wsdl:part name="parameters" element="tns:GetTypeDescriptorsByNameAndLevelForParameterResponse"/>
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6188. <wsdl:message name="BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage">
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6212. <wsdl:message name="BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage">
6213. <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameterResponse"/>
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6215. <wsdl:message name="BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentExceptionFault\_FaultMessage">
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6236. <wsdl:message name="BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage">
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6290. <wsdl:message name="BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentExceptionFault\_FaultMessage">
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6335. <wsdl:message name="BusinessDataCatalogSharedService\_IsMethodInstantiated\_MetadataExceptionStateFault\_FaultMessage">
6336. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
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6338. <wsdl:message name="BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage">
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6465. <wsdl:part name="parameters" element="tns:MetadataObjectWriteXmlResponse"/>
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6467. <wsdl:message name="BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_PackageFormatExceptionStateFault\_FaultMessage">
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6491. <wsdl:message name="BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage">
6492. <wsdl:part name="parameters" element="tns:ModelReadXmlResponse"/>
6493. </wsdl:message>
6494. <wsdl:message name="BusinessDataCatalogSharedService\_ModelReadXml\_PackageFormatExceptionStateFault\_FaultMessage">
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6497. <wsdl:message name="BusinessDataCatalogSharedService\_ReadSlicedXml\_AccessDeniedExceptionFault\_FaultMessage">
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6624. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6625. </wsdl:message>
6626. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_ArgumentNullExceptionFault\_FaultMessage">
6627. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6628. </wsdl:message>
6629. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6630. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6631. </wsdl:message>
6632. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_BdcExceptionStateFault\_FaultMessage">
6633. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6634. </wsdl:message>
6635. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_InputMessage">
6636. <wsdl:part name="parameters" element="tns:SaveProperty"/>
6637. </wsdl:message>
6638. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_InvalidOperationExceptionFault\_FaultMessage">
6639. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6640. </wsdl:message>
6641. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_MetadataExceptionStateFault\_FaultMessage">
6642. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6643. </wsdl:message>
6644. <wsdl:message name="BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage">
6645. <wsdl:part name="parameters" element="tns:SavePropertyResponse"/>
6646. </wsdl:message>
6647. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage">
6648. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6649. </wsdl:message>
6650. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage">
6651. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6652. </wsdl:message>
6653. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6654. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6655. </wsdl:message>
6656. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage">
6657. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6658. </wsdl:message>
6659. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage">
6660. <wsdl:part name="parameters" element="tns:SetAccessControlEntries"/>
6661. </wsdl:message>
6662. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage">
6663. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6664. </wsdl:message>
6665. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage">
6666. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6667. </wsdl:message>
6668. <wsdl:message name="BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage">
6669. <wsdl:part name="parameters" element="tns:SetAccessControlEntriesResponse"/>
6670. </wsdl:message>
6671. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentExceptionFault\_FaultMessage">
6672. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6673. </wsdl:message>
6674. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentNullExceptionFault\_FaultMessage">
6675. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6676. </wsdl:message>
6677. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6678. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6679. </wsdl:message>
6680. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_BdcExceptionStateFault\_FaultMessage">
6681. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6682. </wsdl:message>
6683. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage">
6684. <wsdl:part name="parameters" element="tns:SetDefaultActionForEntity"/>
6685. </wsdl:message>
6686. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InvalidOperationExceptionFault\_FaultMessage">
6687. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6688. </wsdl:message>
6689. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_MetadataExceptionStateFault\_FaultMessage">
6690. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6691. </wsdl:message>
6692. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage">
6693. <wsdl:part name="parameters" element="tns:SetDefaultActionForEntityResponse"/>
6694. </wsdl:message>
6695. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage">
6696. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6697. </wsdl:message>
6698. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage">
6699. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6700. </wsdl:message>
6701. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6702. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6703. </wsdl:message>
6704. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage">
6705. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6706. </wsdl:message>
6707. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage">
6708. <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptor"/>
6709. </wsdl:message>
6710. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage">
6711. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6712. </wsdl:message>
6713. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage">
6714. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6715. </wsdl:message>
6716. <wsdl:message name="BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage">
6717. <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptorResponse"/>
6718. </wsdl:message>
6719. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentExceptionFault\_FaultMessage">
6720. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6721. </wsdl:message>
6722. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage">
6723. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6724. </wsdl:message>
6725. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6726. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6727. </wsdl:message>
6728. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_BdcExceptionStateFault\_FaultMessage">
6729. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6730. </wsdl:message>
6731. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage">
6732. <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemId"/>
6733. </wsdl:message>
6734. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage">
6735. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6736. </wsdl:message>
6737. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage">
6738. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6739. </wsdl:message>
6740. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage">
6741. <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse"/>
6742. </wsdl:message>
6743. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage">
6744. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6745. </wsdl:message>
6746. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage">
6747. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6748. </wsdl:message>
6749. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6750. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6751. </wsdl:message>
6752. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage">
6753. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6754. </wsdl:message>
6755. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage">
6756. <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
6757. </wsdl:message>
6758. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage">
6759. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6760. </wsdl:message>
6761. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage">
6762. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6763. </wsdl:message>
6764. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage">
6765. <wsdl:part name="parameters" element="tns:TypeDescriptorCreateResponse"/>
6766. </wsdl:message>
6767. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage">
6768. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6769. </wsdl:message>
6770. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage">
6771. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6772. </wsdl:message>
6773. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6774. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6775. </wsdl:message>
6776. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage">
6777. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6778. </wsdl:message>
6779. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage">
6780. <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXml"/>
6781. </wsdl:message>
6782. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage">
6783. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6784. </wsdl:message>
6785. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage">
6786. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6787. </wsdl:message>
6788. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage">
6789. <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXmlResponse"/>
6790. </wsdl:message>
6791. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage">
6792. <wsdl:part xmlns:q8="Microsoft.SharePoint.BusinessData" name="detail" element="q8:PackageFormatExceptionState"/>
6793. </wsdl:message>
6794. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage">
6795. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6796. </wsdl:message>
6797. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage">
6798. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6799. </wsdl:message>
6800. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6801. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6802. </wsdl:message>
6803. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage">
6804. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6805. </wsdl:message>
6806. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage">
6807. <wsdl:part name="parameters" element="tns:TypeDescriptorReadXml"/>
6808. </wsdl:message>
6809. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage">
6810. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6811. </wsdl:message>
6812. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage">
6813. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6814. </wsdl:message>
6815. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage">
6816. <wsdl:part name="parameters" element="tns:TypeDescriptorReadXmlResponse"/>
6817. </wsdl:message>
6818. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage">
6819. <wsdl:part xmlns:q8="Microsoft.SharePoint.BusinessData" name="detail" element="q8:PackageFormatExceptionState"/>
6820. </wsdl:message>
6821. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage">
6822. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6823. </wsdl:message>
6824. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage">
6825. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6826. </wsdl:message>
6827. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6828. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6829. </wsdl:message>
6830. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage">
6831. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6832. </wsdl:message>
6833. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_InputMessage">
6834. <wsdl:part name="parameters" element="tns:Update"/>
6835. </wsdl:message>
6836. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage">
6837. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6838. </wsdl:message>
6839. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage">
6840. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6841. </wsdl:message>
6842. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_OutputMessage">
6843. <wsdl:part name="parameters" element="tns:UpdateResponse"/>
6844. </wsdl:message>
6845. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage">
6846. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:AccessDeniedException"/>
6847. </wsdl:message>
6848. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage">
6849. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentException"/>
6850. </wsdl:message>
6851. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage">
6852. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentNullException"/>
6853. </wsdl:message>
6854. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6855. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:ArgumentOutOfRangeException"/>
6856. </wsdl:message>
6857. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage">
6858. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q1:BdcExceptionState"/>
6859. </wsdl:message>
6860. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage">
6861. <wsdl:part name="parameters" element="tns:WriteSlicedXml"/>
6862. </wsdl:message>
6863. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage">
6864. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail" element="q2:InvalidOperationException"/>
6865. </wsdl:message>
6866. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage">
6867. <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail" element="q3:MetadataException"/>
6868. </wsdl:message>
6869. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage">
6870. <wsdl:part name="parameters" element="tns:WriteSlicedXmlResponse"/>
6871. </wsdl:message>
6872. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage">
6873. <wsdl:part xmlns:q8="Microsoft.SharePoint.BusinessData" name="detail" element="q8:PackageFormatExceptionState"/>
6874. </wsdl:message>
6875. </wsdl:definitions>

# Appendix B: Full XML Schema

| Schema name | Prefix | Section |
| --- | --- | --- |
| http://schemas.datacontract.org/2004/07  /Microsoft.BusinessData.Infrastructure | q1 | [7.1](#Section_07d0d78b7c434d3aa01409ce2114f0a4) |
| http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel | tns1 | [7.2](#Section_0ef7dcb6d5b744609fdeaf5a066544bb) |
| http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime | tns2 | [7.3](#Section_8d46427aa0ca43e39bd2df2b5d617a90) |
| Microsoft.BusinessData.SharePoint | q3 | [7.4](#Section_a3f0db551ee640be9b593959afe2269e) |
| http://schemas.datacontract.org/2004/07  /Microsoft.SharePoint.BusinessData.Administration.Client.Constants | tns3 | [7.5](#Section_9332d9f25c9a4192ae874200fc95b56e) |
| Microsoft.SharePoint.BusinessData | q8 | [7.6](#Section_d414c08daf41435aa7424a837d63ddda) |
| http://schemas.microsoft.com/2003/10/Serialization/Arrays | q7 | [7.7](#Section_e473ad842ee447299b0a1a1974673ec4) |
| http://schemas.microsoft.com/2003/10/Serialization/ | ser | [7.8](#Section_8b7b2e626d204f2ba84050e0bfd735c9) |
| http://schemas.datacontract.org/2004/07/System | q2 | [7.9](#Section_c845a8631f4c46518ae19ebfe0269174) |
| http://www.microsoft.com/Office/2009/BusinessDataCatalog | tns | [7.10](#Section_aeb0752c87c44dea95cc3970ca879db2) |

For ease of implementation, the following sections provide the full XML schema for this protocol.

## http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns: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">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
4. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
5. <xs:complexType name="BdcExceptionState">
6. <xs:sequence>
7. <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
10. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
11. </xs:sequence>
12. </xs:complexType>
13. <xs:element name="BdcExceptionState" nillable="true" type="q1:BdcExceptionState"/>
14. <xs:complexType name="AccessDeniedExceptionState">
15. <xs:complexContent mixed="false">
16. <xs:extension base="q1:BdcExceptionState">
17. <xs:sequence>
18. <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="SecurableObjectName" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true" type="xs:string"/>
21. </xs:sequence>
22. </xs:extension>
23. </xs:complexContent>
24. </xs:complexType>
25. <xs:element name="AccessDeniedExceptionState" nillable="true" type="q1:AccessDeniedExceptionState"/>
26. <xs:complexType name="AccessDeniedException">
27. <xs:complexContent mixed="false">
28. <xs:extension base="q1:BdcException"/>
29. </xs:complexContent>
30. </xs:complexType>
31. <xs:element name="AccessDeniedException" nillable="true" type="q1:AccessDeniedException"/>
32. <xs:complexType name="BdcException">
33. <xs:complexContent mixed="false">
34. <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System" base="q2:Exception"/>
35. </xs:complexContent>
36. </xs:complexType>
37. <xs:element name="BdcException" nillable="true" type="q1:BdcException"/>
38. <xs:simpleType name="BdcRights">
39. <xs:list>
40. <xs:simpleType>
41. <xs:restriction base="xs:string">
42. <xs:enumeration value="None"/>
43. <xs:enumeration value="Execute"/>
44. <xs:enumeration value="Edit"/>
45. <xs:enumeration value="SetPermissions"/>
46. <xs:enumeration value="UseInBusinessDataInLists"/>
47. <xs:enumeration value="SelectableInClients"/>
48. </xs:restriction>
49. </xs:simpleType>
50. </xs:list>
51. </xs:simpleType>
52. <xs:element name="BdcRights" nillable="true" type="q1:BdcRights"/>
53. </xs:schema>

## http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:simpleType name="MethodInstanceType">
5. <xs:restriction base="xs:string">
6. <xs:enumeration value="Finder"/>
7. <xs:enumeration value="SpecificFinder"/>
8. <xs:enumeration value="GenericInvoker"/>
9. <xs:enumeration value="IdEnumerator"/>
10. <xs:enumeration value="Scalar"/>
11. <xs:enumeration value="AccessChecker"/>
12. <xs:enumeration value="Creator"/>
13. <xs:enumeration value="Updater"/>
14. <xs:enumeration value="Deleter"/>
15. <xs:enumeration value="ChangedIdEnumerator"/>
16. <xs:enumeration value="DeletedIdEnumerator"/>
17. <xs:enumeration value="AssociationNavigator"/>
18. <xs:enumeration value="Associator"/>
19. <xs:enumeration value="Disassociator"/>
20. <xs:enumeration value="StreamAccessor"/>
21. <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
22. <xs:enumeration value="BulkSpecificFinder"/>
23. <xs:enumeration value="BulkAssociatedIdEnumerator"/>
24. <xs:enumeration value="BulkAssociationNavigator"/>
25. <xs:enumeration value="BulkIdEnumerator"/>
26. <xs:enumeration value="EventSubscriber"/>
27. <xs:enumeration value="EventUnsubscriber"/>
28. </xs:restriction>
29. </xs:simpleType>
30. <xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
31. <xs:simpleType name="FilterType">
32. <xs:restriction base="xs:string">
33. <xs:enumeration value="Comparison"/>
34. <xs:enumeration value="LastId"/>
35. <xs:enumeration value="Limit"/>
36. <xs:enumeration value="PageNumber"/>
37. <xs:enumeration value="Password"/>
38. <xs:enumeration value="SsoTicket"/>
39. <xs:enumeration value="Timestamp"/>
40. <xs:enumeration value="UserContext"/>
41. <xs:enumeration value="Username"/>
42. <xs:enumeration value="UserProfile"/>
43. <xs:enumeration value="Wildcard"/>
44. <xs:enumeration value="Input"/>
45. <xs:enumeration value="Output"/>
46. <xs:enumeration value="InputOutput"/>
47. <xs:enumeration value="Batching"/>
48. <xs:enumeration value="BatchingTermination"/>
49. <xs:enumeration value="UserCulture"/>
50. <xs:enumeration value="ActivityId"/>
51. <xs:enumeration value="Sorting"/>
52. </xs:restriction>
53. </xs:simpleType>
54. <xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
55. <xs:simpleType name="SystemType">
56. <xs:restriction base="xs:string">
57. <xs:enumeration value="Database"/>
58. <xs:enumeration value="WebService"/>
59. <xs:enumeration value="Custom"/>
60. <xs:enumeration value="Wcf"/>
61. <xs:enumeration value="DotNetAssembly"/>
62. <xs:enumeration value="OData"/>
63. </xs:restriction>
64. </xs:simpleType>
65. <xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
66. <xs:simpleType name="DirectionType">
67. <xs:restriction base="xs:string">
68. <xs:enumeration value="In"/>
69. <xs:enumeration value="Out"/>
70. <xs:enumeration value="InOut"/>
71. <xs:enumeration value="Return"/>
72. </xs:restriction>
73. </xs:simpleType>
74. <xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
75. <xs:simpleType name="TypeDescriptorFlags">
76. <xs:list>
77. <xs:simpleType>
78. <xs:restriction base="xs:string">
79. <xs:enumeration value="None"/>
80. <xs:enumeration value="CreatorField"/>
81. <xs:enumeration value="UpdaterField"/>
82. <xs:enumeration value="PreUpdaterField"/>
83. <xs:enumeration value="IsCollection"/>
84. <xs:enumeration value="ReadOnly"/>
85. <xs:enumeration value="Significant"/>
86. <xs:enumeration value="IsSortInput"/>
87. </xs:restriction>
88. </xs:simpleType>
89. </xs:list>
90. </xs:simpleType>
91. <xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
92. </xs:schema>

## http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:simpleType name="CacheUsage">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="Default"/>
6. <xs:enumeration value="Online"/>
7. <xs:enumeration value="Cached"/>
8. <xs:enumeration value="Offline"/>
9. </xs:restriction>
10. </xs:simpleType>
11. <xs:element name="CacheUsage" nillable="true" type="tns2:CacheUsage"/>
12. <xs:complexType name="ProxyGenerationResult">
13. <xs:sequence>
14. <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
15. <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
16. <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
17. </xs:sequence>
18. </xs:complexType>
19. <xs:element name="ProxyGenerationResult" nillable="true" type="tns2:ProxyGenerationResult"/>
20. </xs:schema>

## Microsoft.BusinessData.SharePoint Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q3="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified" targetNamespace="Microsoft.BusinessData.SharePoint" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:complexType name="MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true" type="xs:string"/>
10. <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
11. </xs:sequence>
12. </xs:complexType>
13. <xs:element name="MetadataException" nillable="true" type="q3:MetadataException"/>
14. </xs:schema>

## http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="AllLobSystemsInModel"/>
6. <xs:enumeration value="OwnedLobSystemsInModel"/>
7. <xs:enumeration value="SharedLobSystemsInModel"/>
8. </xs:restriction>
9. </xs:simpleType>
10. <xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true" type="tns3:LobSystemConstants.LobSystemsInModelQuery"/>
11. <xs:simpleType name="EntityConstants.EntitiesInModelQuery">
12. <xs:restriction base="xs:string">
13. <xs:enumeration value="AllEntitiesInModel"/>
14. <xs:enumeration value="OwnedEntitiesInModel"/>
15. <xs:enumeration value="SharedEntitiesInModel"/>
16. </xs:restriction>
17. </xs:simpleType>
18. <xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true" type="tns3:EntityConstants.EntitiesInModelQuery"/>
19. </xs:schema>

## Microsoft.SharePoint.BusinessData Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q8="Microsoft.SharePoint.BusinessData" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
4. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
6. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
7. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
8. <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
9. <xs:complexType name="ConcurrentModificationExceptionState">
10. <xs:complexContent mixed="false">
11. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
12. <xs:sequence>
13. <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
14. </xs:sequence>
15. </xs:extension>
16. </xs:complexContent>
17. </xs:complexType>
18. <xs:element name="ConcurrentModificationExceptionState" nillable="true" type="q8:ConcurrentModificationExceptionState"/>
19. <xs:complexType name="DuplicateMetadataObjectExceptionState">
20. <xs:complexContent mixed="false">
21. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
22. <xs:sequence>
23. <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true" type="xs:string"/>
24. <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true" type="xs:string"/>
25. </xs:sequence>
26. </xs:extension>
27. </xs:complexContent>
28. </xs:complexType>
29. <xs:element name="DuplicateMetadataObjectExceptionState" nillable="true" type="q8:DuplicateMetadataObjectExceptionState"/>
30. <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
31. <xs:complexContent mixed="false">
32. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
33. <xs:sequence>
34. <xs:element minOccurs="0" name="Limit" type="xs:int"/>
35. </xs:sequence>
36. </xs:extension>
37. </xs:complexContent>
38. </xs:complexType>
39. <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true" type="q8:ExceededMetadataObjectLimitExceptionState"/>
40. <xs:complexType name="InvalidMetadataObjectExceptionState">
41. <xs:complexContent mixed="false">
42. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
43. <xs:sequence>
44. <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
45. <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
46. <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true" type="xs:string"/>
47. </xs:sequence>
48. </xs:extension>
49. </xs:complexContent>
50. </xs:complexType>
51. <xs:element name="InvalidMetadataObjectExceptionState" nillable="true" type="q8:InvalidMetadataObjectExceptionState"/>
52. <xs:complexType name="InvalidMetadataPropertyExceptionState">
53. <xs:complexContent mixed="false">
54. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
55. <xs:sequence>
56. <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true" type="xs:string"/>
57. <xs:element minOccurs="0" name="MetadataObjectName" nillable="true" type="xs:string"/>
58. </xs:sequence>
59. </xs:extension>
60. </xs:complexContent>
61. </xs:complexType>
62. <xs:element name="InvalidMetadataPropertyExceptionState" nillable="true" type="q8:InvalidMetadataPropertyExceptionState"/>
63. <xs:complexType name="MetadataObjectNotFoundExceptionState">
64. <xs:complexContent mixed="false">
65. <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint" base="q3:MetadataException">
66. <xs:sequence>
67. <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
68. </xs:sequence>
69. </xs:extension>
70. </xs:complexContent>
71. </xs:complexType>
72. <xs:element name="MetadataObjectNotFoundExceptionState" nillable="true" type="q8:MetadataObjectNotFoundExceptionState"/>
73. <xs:simpleType name="PackageContents">
74. <xs:list>
75. <xs:simpleType>
76. <xs:restriction base="xs:string">
77. <xs:enumeration value="None"/>
78. <xs:enumeration value="Model"/>
79. <xs:enumeration value="LocalizedNames"/>
80. <xs:enumeration value="Permissions"/>
81. <xs:enumeration value="Properties"/>
82. <xs:enumeration value="InlineProxies"/>
83. <xs:enumeration value="All"/>
84. </xs:restriction>
85. </xs:simpleType>
86. </xs:list>
87. </xs:simpleType>
88. <xs:element name="PackageContents" nillable="true" type="q8:PackageContents"/>
89. <xs:complexType name="MetadataObjectStruct">
90. <xs:sequence>
91. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
92. <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
93. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
94. <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
95. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
96. </xs:sequence>
97. </xs:complexType>
98. <xs:element name="MetadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
99. <xs:complexType name="ActionParameterStruct">
100. <xs:complexContent mixed="false">
101. <xs:extension base="q8:MetadataObjectStruct">
102. <xs:sequence>
103. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
104. <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
105. </xs:sequence>
106. </xs:extension>
107. </xs:complexContent>
108. </xs:complexType>
109. <xs:element name="ActionParameterStruct" nillable="true" type="q8:ActionParameterStruct"/>
110. <xs:complexType name="ActionStruct">
111. <xs:complexContent mixed="false">
112. <xs:extension base="q8:MetadataObjectStruct">
113. <xs:sequence>
114. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
115. <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
116. <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
117. <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
118. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
119. </xs:sequence>
120. </xs:extension>
121. </xs:complexContent>
122. </xs:complexType>
123. <xs:element name="ActionStruct" nillable="true" type="q8:ActionStruct"/>
124. <xs:complexType name="AdministrationMetadataCatalogStruct">
125. <xs:complexContent mixed="false">
126. <xs:extension base="q8:MetadataObjectStruct">
127. <xs:sequence/>
128. </xs:extension>
129. </xs:complexContent>
130. </xs:complexType>
131. <xs:element name="AdministrationMetadataCatalogStruct" nillable="true" type="q8:AdministrationMetadataCatalogStruct"/>
132. <xs:complexType name="AssociationStruct">
133. <xs:complexContent mixed="false">
134. <xs:extension base="q8:MethodInstanceStruct">
135. <xs:sequence>
136. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
137. <xs:element minOccurs="0" name="destinationEntityName" nillable="true" type="xs:string"/>
138. <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true" type="xs:string"/>
139. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNames" nillable="true" type="q7:ArrayOfstring"/>
140. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q7:ArrayOfstring"/>
141. </xs:sequence>
142. </xs:extension>
143. </xs:complexContent>
144. </xs:complexType>
145. <xs:element name="AssociationStruct" nillable="true" type="q8:AssociationStruct"/>
146. <xs:complexType name="MethodInstanceStruct">
147. <xs:complexContent mixed="false">
148. <xs:extension base="q8:MetadataObjectStruct">
149. <xs:sequence>
150. <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
151. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
152. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
153. <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
154. </xs:sequence>
155. </xs:extension>
156. </xs:complexContent>
157. </xs:complexType>
158. <xs:element name="MethodInstanceStruct" nillable="true" type="q8:MethodInstanceStruct"/>
159. <xs:complexType name="AssociationGroupStruct">
160. <xs:complexContent mixed="false">
161. <xs:extension base="q8:MetadataObjectStruct">
162. <xs:sequence>
163. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNames" nillable="true" type="q7:ArrayOfstring"/>
164. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q7:ArrayOfstring"/>
165. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationIds" nillable="true" type="q7:ArrayOfunsignedInt"/>
166. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationNames" nillable="true" type="q7:ArrayOfstring"/>
167. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
168. </xs:sequence>
169. </xs:extension>
170. </xs:complexContent>
171. </xs:complexType>
172. <xs:element name="AssociationGroupStruct" nillable="true" type="q8:AssociationGroupStruct"/>
173. <xs:complexType name="DataClassStruct">
174. <xs:complexContent mixed="false">
175. <xs:extension base="q8:MetadataObjectStruct">
176. <xs:sequence>
177. <xs:element minOccurs="0" name="active" type="xs:boolean"/>
178. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
179. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
180. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
181. <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q2:Version"/>
182. </xs:sequence>
183. </xs:extension>
184. </xs:complexContent>
185. </xs:complexType>
186. <xs:element name="DataClassStruct" nillable="true" type="q8:DataClassStruct"/>
187. <xs:complexType name="EntityStruct">
188. <xs:complexContent mixed="false">
189. <xs:extension base="q8:DataClassStruct">
190. <xs:sequence>
191. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
192. <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
193. <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
194. </xs:sequence>
195. </xs:extension>
196. </xs:complexContent>
197. </xs:complexType>
198. <xs:element name="EntityStruct" nillable="true" type="q8:EntityStruct"/>
199. <xs:complexType name="FilterDescriptorStruct">
200. <xs:complexContent mixed="false">
201. <xs:extension base="q8:MetadataObjectStruct">
202. <xs:sequence>
203. <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
204. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="filterType" type="tns1:FilterType"/>
205. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
206. </xs:sequence>
207. </xs:extension>
208. </xs:complexContent>
209. </xs:complexType>
210. <xs:element name="FilterDescriptorStruct" nillable="true" type="q8:FilterDescriptorStruct"/>
211. <xs:complexType name="IdentifierStruct">
212. <xs:complexContent mixed="false">
213. <xs:extension base="q8:MetadataObjectStruct">
214. <xs:sequence>
215. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
216. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
217. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
218. </xs:sequence>
219. </xs:extension>
220. </xs:complexContent>
221. </xs:complexType>
222. <xs:element name="IdentifierStruct" nillable="true" type="q8:IdentifierStruct"/>
223. <xs:complexType name="LobSystemInstanceStruct">
224. <xs:complexContent mixed="false">
225. <xs:extension base="q8:MetadataObjectStruct">
226. <xs:sequence>
227. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
228. </xs:sequence>
229. </xs:extension>
230. </xs:complexContent>
231. </xs:complexType>
232. <xs:element name="LobSystemInstanceStruct" nillable="true" type="q8:LobSystemInstanceStruct"/>
233. <xs:complexType name="LobSystemStruct">
234. <xs:complexContent mixed="false">
235. <xs:extension base="q8:MetadataObjectStruct">
236. <xs:sequence>
237. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="systemType" type="tns1:SystemType"/>
238. </xs:sequence>
239. </xs:extension>
240. </xs:complexContent>
241. </xs:complexType>
242. <xs:element name="LobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
243. <xs:complexType name="MethodStruct">
244. <xs:complexContent mixed="false">
245. <xs:extension base="q8:MetadataObjectStruct">
246. <xs:sequence>
247. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
248. <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
249. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
250. </xs:sequence>
251. </xs:extension>
252. </xs:complexContent>
253. </xs:complexType>
254. <xs:element name="MethodStruct" nillable="true" type="q8:MethodStruct"/>
255. <xs:complexType name="ModelStruct">
256. <xs:complexContent mixed="false">
257. <xs:extension base="q8:MetadataObjectStruct">
258. <xs:sequence/>
259. </xs:extension>
260. </xs:complexContent>
261. </xs:complexType>
262. <xs:element name="ModelStruct" nillable="true" type="q8:ModelStruct"/>
263. <xs:complexType name="ParameterStruct">
264. <xs:complexContent mixed="false">
265. <xs:extension base="q8:MetadataObjectStruct">
266. <xs:sequence>
267. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="direction" type="tns1:DirectionType"/>
268. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
269. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
270. <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
271. </xs:sequence>
272. </xs:extension>
273. </xs:complexContent>
274. </xs:complexType>
275. <xs:element name="ParameterStruct" nillable="true" type="q8:ParameterStruct"/>
276. <xs:complexType name="TypeDescriptorStruct">
277. <xs:complexContent mixed="false">
278. <xs:extension base="q8:MetadataObjectStruct">
279. <xs:sequence>
280. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
281. <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true" type="xs:string"/>
282. <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true" type="xs:string"/>
283. <xs:element minOccurs="0" name="associationReferenceName" nillable="true" type="xs:string"/>
284. <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
285. <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
286. <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
287. <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
288. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
289. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
290. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
291. <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true" type="xs:string"/>
292. <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true" type="xs:string"/>
293. <xs:element minOccurs="0" name="identifierReferenceName" nillable="true" type="xs:string"/>
294. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
295. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
296. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
297. <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
298. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
299. </xs:sequence>
300. </xs:extension>
301. </xs:complexContent>
302. </xs:complexType>
303. <xs:element name="TypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
304. <xs:complexType name="PackageFormatExceptionState">
305. <xs:sequence>
306. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
307. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="ParseErrors" nillable="true" type="q7:ArrayOfstring"/>
308. <xs:element xmlns:q3="Microsoft.BusinessData.SharePoint" minOccurs="0" name="SerializedInnerSystemException" nillable="true" type="q3:MetadataException"/>
309. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
310. </xs:sequence>
311. </xs:complexType>
312. <xs:element name="PackageFormatExceptionState" nillable="true" type="q8:PackageFormatExceptionState"/>
313. <xs:complexType name="ArrayOfLocalizedNameStruct">
314. <xs:sequence>
315. <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct" nillable="true" type="q8:LocalizedNameStruct"/>
316. </xs:sequence>
317. </xs:complexType>
318. <xs:element name="ArrayOfLocalizedNameStruct" nillable="true" type="q8:ArrayOfLocalizedNameStruct"/>
319. <xs:complexType name="LocalizedNameStruct">
320. <xs:sequence>
321. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
322. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
323. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
324. <xs:element minOccurs="0" name="vlue" nillable="true" type="xs:string"/>
325. </xs:sequence>
326. </xs:complexType>
327. <xs:element name="LocalizedNameStruct" nillable="true" type="q8:LocalizedNameStruct"/>
328. <xs:complexType name="ArrayOfPropertyStruct">
329. <xs:sequence>
330. <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true" type="q8:PropertyStruct"/>
331. </xs:sequence>
332. </xs:complexType>
333. <xs:element name="ArrayOfPropertyStruct" nillable="true" type="q8:ArrayOfPropertyStruct"/>
334. <xs:complexType name="PropertyStruct">
335. <xs:complexContent mixed="false">
336. <xs:extension base="q8:ComplexValueStruct">
337. <xs:sequence>
338. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
339. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
340. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
341. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
342. </xs:sequence>
343. </xs:extension>
344. </xs:complexContent>
345. </xs:complexType>
346. <xs:element name="PropertyStruct" nillable="true" type="q8:PropertyStruct"/>
347. <xs:complexType name="ComplexValueStruct">
348. <xs:sequence>
349. <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
350. <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true" type="xs:anyType"/>
351. <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName" nillable="true" type="xs:string"/>
352. <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true" type="xs:string"/>
353. </xs:sequence>
354. </xs:complexType>
355. <xs:element name="ComplexValueStruct" nillable="true" type="q8:ComplexValueStruct"/>
356. <xs:complexType name="DefaultValueStruct">
357. <xs:complexContent mixed="false">
358. <xs:extension base="q8:ComplexValueStruct">
359. <xs:sequence>
360. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
361. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
362. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
363. </xs:sequence>
364. </xs:extension>
365. </xs:complexContent>
366. </xs:complexType>
367. <xs:element name="DefaultValueStruct" nillable="true" type="q8:DefaultValueStruct"/>
368. <xs:complexType name="ArrayOfAccessControlEntryStruct">
369. <xs:sequence>
370. <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct" nillable="true" type="q8:AccessControlEntryStruct"/>
371. </xs:sequence>
372. </xs:complexType>
373. <xs:element name="ArrayOfAccessControlEntryStruct" nillable="true" type="q8:ArrayOfAccessControlEntryStruct"/>
374. <xs:complexType name="AccessControlEntryStruct">
375. <xs:sequence>
376. <xs:element minOccurs="0" name="principalBinaryForm" nillable="true" type="xs:base64Binary"/>
377. <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
378. <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
379. <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
380. </xs:sequence>
381. </xs:complexType>
382. <xs:element name="AccessControlEntryStruct" nillable="true" type="q8:AccessControlEntryStruct"/>
383. <xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
384. <xs:sequence>
385. <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct" nillable="true" type="q8:CacheInvalidationRecordStruct"/>
386. </xs:sequence>
387. </xs:complexType>
388. <xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true" type="q8:ArrayOfCacheInvalidationRecordStruct"/>
389. <xs:complexType name="CacheInvalidationRecordStruct">
390. <xs:sequence>
391. <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
392. <xs:element minOccurs="0" name="counter" type="xs:int"/>
393. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
394. <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
395. </xs:sequence>
396. </xs:complexType>
397. <xs:element name="CacheInvalidationRecordStruct" nillable="true" type="q8:CacheInvalidationRecordStruct"/>
398. <xs:complexType name="ArrayOfModelStruct">
399. <xs:sequence>
400. <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true" type="q8:ModelStruct"/>
401. </xs:sequence>
402. </xs:complexType>
403. <xs:element name="ArrayOfModelStruct" nillable="true" type="q8:ArrayOfModelStruct"/>
404. <xs:complexType name="ArrayOfLobSystemStruct">
405. <xs:sequence>
406. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true" type="q8:LobSystemStruct"/>
407. </xs:sequence>
408. </xs:complexType>
409. <xs:element name="ArrayOfLobSystemStruct" nillable="true" type="q8:ArrayOfLobSystemStruct"/>
410. <xs:complexType name="ArrayOfLobSystemInstanceStruct">
411. <xs:sequence>
412. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct" nillable="true" type="q8:LobSystemInstanceStruct"/>
413. </xs:sequence>
414. </xs:complexType>
415. <xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true" type="q8:ArrayOfLobSystemInstanceStruct"/>
416. <xs:complexType name="ArrayOfDataClassStruct">
417. <xs:sequence>
418. <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true" type="q8:DataClassStruct"/>
419. </xs:sequence>
420. </xs:complexType>
421. <xs:element name="ArrayOfDataClassStruct" nillable="true" type="q8:ArrayOfDataClassStruct"/>
422. <xs:complexType name="ArrayOfEntityStruct">
423. <xs:sequence>
424. <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true" type="q8:EntityStruct"/>
425. </xs:sequence>
426. </xs:complexType>
427. <xs:element name="ArrayOfEntityStruct" nillable="true" type="q8:ArrayOfEntityStruct"/>
428. <xs:complexType name="ArrayOfActivationErrorRecordStruct">
429. <xs:sequence>
430. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct" nillable="true" type="q8:ActivationErrorRecordStruct"/>
431. </xs:sequence>
432. </xs:complexType>
433. <xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true" type="q8:ArrayOfActivationErrorRecordStruct"/>
434. <xs:complexType name="ActivationErrorRecordStruct">
435. <xs:sequence>
436. <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true" type="xs:string"/>
437. <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
438. <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true" type="xs:string"/>
439. <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true" type="xs:string"/>
440. <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
441. <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true" type="xs:string"/>
442. <xs:element minOccurs="0" name="containingEntityVersion" nillable="true" type="xs:string"/>
443. <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
444. <xs:element minOccurs="0" name="containingParameterName" nillable="true" type="xs:string"/>
445. <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
446. <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true" type="xs:string"/>
447. <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
448. <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true" type="xs:string"/>
449. <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
450. <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true" type="xs:string"/>
451. <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true" type="xs:string"/>
452. <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true" type="xs:string"/>
453. <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
454. <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
455. </xs:sequence>
456. </xs:complexType>
457. <xs:element name="ActivationErrorRecordStruct" nillable="true" type="q8:ActivationErrorRecordStruct"/>
458. <xs:complexType name="ArrayOfActionStruct">
459. <xs:sequence>
460. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true" type="q8:ActionStruct"/>
461. </xs:sequence>
462. </xs:complexType>
463. <xs:element name="ArrayOfActionStruct" nillable="true" type="q8:ArrayOfActionStruct"/>
464. <xs:complexType name="ArrayOfActionParameterStruct">
465. <xs:sequence>
466. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct" nillable="true" type="q8:ActionParameterStruct"/>
467. </xs:sequence>
468. </xs:complexType>
469. <xs:element name="ArrayOfActionParameterStruct" nillable="true" type="q8:ArrayOfActionParameterStruct"/>
470. <xs:complexType name="ArrayOfIdentifierStruct">
471. <xs:sequence>
472. <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true" type="q8:IdentifierStruct"/>
473. </xs:sequence>
474. </xs:complexType>
475. <xs:element name="ArrayOfIdentifierStruct" nillable="true" type="q8:ArrayOfIdentifierStruct"/>
476. <xs:complexType name="ArrayOfMethodStruct">
477. <xs:sequence>
478. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true" type="q8:MethodStruct"/>
479. </xs:sequence>
480. </xs:complexType>
481. <xs:element name="ArrayOfMethodStruct" nillable="true" type="q8:ArrayOfMethodStruct"/>
482. <xs:complexType name="ArrayOfFilterDescriptorStruct">
483. <xs:sequence>
484. <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct" nillable="true" type="q8:FilterDescriptorStruct"/>
485. </xs:sequence>
486. </xs:complexType>
487. <xs:element name="ArrayOfFilterDescriptorStruct" nillable="true" type="q8:ArrayOfFilterDescriptorStruct"/>
488. <xs:complexType name="ArrayOfMethodInstanceStruct">
489. <xs:sequence>
490. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct" nillable="true" type="q8:MethodInstanceStruct"/>
491. </xs:sequence>
492. </xs:complexType>
493. <xs:element name="ArrayOfMethodInstanceStruct" nillable="true" type="q8:ArrayOfMethodInstanceStruct"/>
494. <xs:complexType name="ArrayOfParameterStruct">
495. <xs:sequence>
496. <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true" type="q8:ParameterStruct"/>
497. </xs:sequence>
498. </xs:complexType>
499. <xs:element name="ArrayOfParameterStruct" nillable="true" type="q8:ArrayOfParameterStruct"/>
500. <xs:complexType name="ArrayOfTypeDescriptorStruct">
501. <xs:sequence>
502. <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct" nillable="true" type="q8:TypeDescriptorStruct"/>
503. </xs:sequence>
504. </xs:complexType>
505. <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true" type="q8:ArrayOfTypeDescriptorStruct"/>
506. <xs:complexType name="ArrayOfDefaultValueStruct">
507. <xs:sequence>
508. <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true" type="q8:DefaultValueStruct"/>
509. </xs:sequence>
510. </xs:complexType>
511. <xs:element name="ArrayOfDefaultValueStruct" nillable="true" type="q8:ArrayOfDefaultValueStruct"/>
512. <xs:complexType name="ArrayOfAssociationStruct">
513. <xs:sequence>
514. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true" type="q8:AssociationStruct"/>
515. </xs:sequence>
516. </xs:complexType>
517. <xs:element name="ArrayOfAssociationStruct" nillable="true" type="q8:ArrayOfAssociationStruct"/>
518. <xs:complexType name="ArrayOfAssociationMemberStruct">
519. <xs:sequence>
520. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct" nillable="true" type="q8:AssociationMemberStruct"/>
521. </xs:sequence>
522. </xs:complexType>
523. <xs:element name="ArrayOfAssociationMemberStruct" nillable="true" type="q8:ArrayOfAssociationMemberStruct"/>
524. <xs:complexType name="AssociationMemberStruct">
525. <xs:sequence>
526. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
527. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
528. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
529. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
530. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
531. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
532. </xs:sequence>
533. </xs:complexType>
534. <xs:element name="AssociationMemberStruct" nillable="true" type="q8:AssociationMemberStruct"/>
535. <xs:complexType name="ArrayOfAssociationGroupStruct">
536. <xs:sequence>
537. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct" nillable="true" type="q8:AssociationGroupStruct"/>
538. </xs:sequence>
539. </xs:complexType>
540. <xs:element name="ArrayOfAssociationGroupStruct" nillable="true" type="q8:ArrayOfAssociationGroupStruct"/>
541. <xs:complexType name="ArrayOfAssociationReferenceStruct">
542. <xs:sequence>
543. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
544. </xs:sequence>
545. </xs:complexType>
546. <xs:element name="ArrayOfAssociationReferenceStruct" nillable="true" type="q8:ArrayOfAssociationReferenceStruct"/>
547. <xs:complexType name="AssociationReferenceStruct">
548. <xs:sequence>
549. <xs:element minOccurs="0" name="\_associationName" nillable="true" type="xs:string"/>
550. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
551. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
552. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
553. <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
554. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
555. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
556. <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
557. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
558. </xs:sequence>
559. </xs:complexType>
560. <xs:element name="AssociationReferenceStruct" nillable="true" type="q8:AssociationReferenceStruct"/>
561. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="ArrayOfguid">
5. <xs:sequence>
6. <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. <xs:element name="ArrayOfguid" nillable="true" type="q7:ArrayOfguid"/>
10. <xs:complexType name="ArrayOfstring">
11. <xs:sequence>
12. <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true" type="xs:string"/>
13. </xs:sequence>
14. </xs:complexType>
15. <xs:element name="ArrayOfstring" nillable="true" type="q7:ArrayOfstring"/>
16. <xs:complexType name="ArrayOfunsignedInt">
17. <xs:sequence>
18. <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt" type="xs:unsignedInt"/>
19. </xs:sequence>
20. </xs:complexType>
21. <xs:element name="ArrayOfunsignedInt" nillable="true" type="q7:ArrayOfunsignedInt"/>
22. <xs:complexType name="ArrayOfbase64Binary">
23. <xs:sequence>
24. <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true" type="xs:base64Binary"/>
25. </xs:sequence>
26. </xs:complexType>
27. <xs:element name="ArrayOfbase64Binary" nillable="true" type="q7:ArrayOfbase64Binary"/>
28. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" attributeFormDefault="qualified" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:element name="anyType" nillable="true" type="xs:anyType"/>
4. <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
5. <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
6. <xs:element name="boolean" nillable="true" type="xs:boolean"/>
7. <xs:element name="byte" nillable="true" type="xs:byte"/>
8. <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
9. <xs:element name="decimal" nillable="true" type="xs:decimal"/>
10. <xs:element name="double" nillable="true" type="xs:double"/>
11. <xs:element name="float" nillable="true" type="xs:float"/>
12. <xs:element name="int" nillable="true" type="xs:int"/>
13. <xs:element name="long" nillable="true" type="xs:long"/>
14. <xs:element name="QName" nillable="true" type="xs:QName"/>
15. <xs:element name="short" nillable="true" type="xs:short"/>
16. <xs:element name="string" nillable="true" type="xs:string"/>
17. <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
18. <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
19. <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
20. <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
21. <xs:element name="char" nillable="true" type="ser:char"/>
22. <xs:simpleType name="char">
23. <xs:restriction base="xs:int"/>
24. </xs:simpleType>
25. <xs:element name="duration" nillable="true" type="ser:duration"/>
26. <xs:simpleType name="duration">
27. <xs:restriction base="xs:duration">
28. <xs:pattern value="\-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?"/>
29. <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
30. <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
31. </xs:restriction>
32. </xs:simpleType>
33. <xs:element name="guid" nillable="true" type="ser:guid"/>
34. <xs:simpleType name="guid">
35. <xs:restriction base="xs:string">
36. <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
37. </xs:restriction>
38. </xs:simpleType>
39. <xs:attribute name="FactoryType" type="xs:QName"/>
40. <xs:attribute name="Id" type="xs:ID"/>
41. <xs:attribute name="Ref" type="xs:IDREF"/>
42. </xs:schema>

## http://schemas.datacontract.org/2004/07/System Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns: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">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="InvalidOperationException">
5. <xs:complexContent mixed="false">
6. <xs:extension base="q2:SystemException"/>
7. </xs:complexContent>
8. </xs:complexType>
9. <xs:element name="InvalidOperationException" nillable="true" type="q2:InvalidOperationException"/>
10. <xs:complexType name="SystemException">
11. <xs:complexContent mixed="false">
12. <xs:extension base="q2:Exception"/>
13. </xs:complexContent>
14. </xs:complexType>
15. <xs:element name="SystemException" nillable="true" type="q2:SystemException"/>
16. <xs:complexType name="Exception">
17. <xs:sequence>
18. <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"/>
19. </xs:sequence>
20. <xs:attribute ref="ser:FactoryType"/>
21. </xs:complexType>
22. <xs:element name="Exception" nillable="true" type="q2:Exception"/>
23. <xs:complexType name="Version">
24. <xs:sequence>
25. <xs:element name="\_Build" type="xs:int"/>
26. <xs:element name="\_Major" type="xs:int"/>
27. <xs:element name="\_Minor" type="xs:int"/>
28. <xs:element name="\_Revision" type="xs:int"/>
29. </xs:sequence>
30. </xs:complexType>
31. <xs:element name="Version" nillable="true" type="q2:Version"/>
32. <xs:complexType name="ArgumentException">
33. <xs:complexContent mixed="false">
34. <xs:extension base="q2:SystemException"/>
35. </xs:complexContent>
36. </xs:complexType>
37. <xs:element name="ArgumentException" nillable="true" type="q2:ArgumentException"/>
38. <xs:complexType name="ArgumentNullException">
39. <xs:complexContent mixed="false">
40. <xs:extension base="q2:ArgumentException"/>
41. </xs:complexContent>
42. </xs:complexType>
43. <xs:element name="ArgumentNullException" nillable="true" type="q2:ArgumentNullException"/>
44. <xs:complexType name="ArgumentOutOfRangeException">
45. <xs:complexContent mixed="false">
46. <xs:extension base="q2:ArgumentException"/>
47. </xs:complexContent>
48. </xs:complexType>
49. <xs:element name="ArgumentOutOfRangeException" nillable="true" type="q2:ArgumentOutOfRangeException"/>
50. </xs:schema>

## http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema elementFormDefault="qualified" targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
4. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
6. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants"/>
7. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
8. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
9. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
10. <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
11. <xs:element name="GetServiceApplicationId">
12. <xs:complexType>
13. <xs:sequence/>
14. </xs:complexType>
15. </xs:element>
16. <xs:element name="GetServiceApplicationIdResponse">
17. <xs:complexType>
18. <xs:sequence>
19. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
20. </xs:sequence>
21. </xs:complexType>
22. </xs:element>
23. <xs:element name="GetAllPartitionIds">
24. <xs:complexType>
25. <xs:sequence/>
26. </xs:complexType>
27. </xs:element>
28. <xs:element name="GetAllPartitionIdsResponse">
29. <xs:complexType>
30. <xs:sequence>
31. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q7:ArrayOfguid"/>
32. </xs:sequence>
33. </xs:complexType>
34. </xs:element>
35. <xs:element name="ReadSlicedXml">
36. <xs:complexType>
37. <xs:sequence>
38. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
39. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
40. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
41. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
42. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
43. </xs:sequence>
44. </xs:complexType>
45. </xs:element>
46. <xs:element name="ReadSlicedXmlResponse">
47. <xs:complexType>
48. <xs:sequence>
49. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
50. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
51. </xs:sequence>
52. </xs:complexType>
53. </xs:element>
54. <xs:element name="WriteSlicedXml">
55. <xs:complexType>
56. <xs:sequence>
57. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
58. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
59. </xs:sequence>
60. </xs:complexType>
61. </xs:element>
62. <xs:element name="WriteSlicedXmlResponse">
63. <xs:complexType>
64. <xs:sequence>
65. <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true" type="xs:string"/>
66. </xs:sequence>
67. </xs:complexType>
68. </xs:element>
69. <xs:element name="HaveRights">
70. <xs:complexType>
71. <xs:sequence>
72. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
73. <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" minOccurs="0" name="rights" type="q1:BdcRights"/>
74. <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
75. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
76. </xs:sequence>
77. </xs:complexType>
78. </xs:element>
79. <xs:element name="HaveRightsResponse">
80. <xs:complexType>
81. <xs:sequence>
82. <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
83. </xs:sequence>
84. </xs:complexType>
85. </xs:element>
86. <xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
87. <xs:complexType>
88. <xs:sequence>
89. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
90. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
91. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
92. </xs:sequence>
93. </xs:complexType>
94. </xs:element>
95. <xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
96. <xs:complexType>
97. <xs:sequence>
98. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true" type="q8:ArrayOfLocalizedNameStruct"/>
99. </xs:sequence>
100. </xs:complexType>
101. </xs:element>
102. <xs:element name="GetAllLocalizedNames">
103. <xs:complexType>
104. <xs:sequence>
105. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
106. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
107. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
108. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
109. </xs:sequence>
110. </xs:complexType>
111. </xs:element>
112. <xs:element name="GetAllLocalizedNamesResponse">
113. <xs:complexType>
114. <xs:sequence>
115. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesResult" nillable="true" type="q8:ArrayOfLocalizedNameStruct"/>
116. </xs:sequence>
117. </xs:complexType>
118. </xs:element>
119. <xs:element name="GetAllPropertiesForMetadataObjectStruct">
120. <xs:complexType>
121. <xs:sequence>
122. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
123. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
124. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
125. </xs:sequence>
126. </xs:complexType>
127. </xs:element>
128. <xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
129. <xs:complexType>
130. <xs:sequence>
131. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesForMetadataObjectStructResult" nillable="true" type="q8:ArrayOfPropertyStruct"/>
132. </xs:sequence>
133. </xs:complexType>
134. </xs:element>
135. <xs:element name="GetAllProperties">
136. <xs:complexType>
137. <xs:sequence>
138. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
139. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
140. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
141. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
142. </xs:sequence>
143. </xs:complexType>
144. </xs:element>
145. <xs:element name="GetAllPropertiesResponse">
146. <xs:complexType>
147. <xs:sequence>
148. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesResult" nillable="true" type="q8:ArrayOfPropertyStruct"/>
149. </xs:sequence>
150. </xs:complexType>
151. </xs:element>
152. <xs:element name="SaveLocalizedName">
153. <xs:complexType>
154. <xs:sequence>
155. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
156. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
157. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
158. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
159. </xs:sequence>
160. </xs:complexType>
161. </xs:element>
162. <xs:element name="SaveLocalizedNameResponse">
163. <xs:complexType>
164. <xs:sequence/>
165. </xs:complexType>
166. </xs:element>
167. <xs:element name="ClearLocalizedNames">
168. <xs:complexType>
169. <xs:sequence>
170. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
171. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
172. </xs:sequence>
173. </xs:complexType>
174. </xs:element>
175. <xs:element name="ClearLocalizedNamesResponse">
176. <xs:complexType>
177. <xs:sequence/>
178. </xs:complexType>
179. </xs:element>
180. <xs:element name="RemoveLocalizedName">
181. <xs:complexType>
182. <xs:sequence>
183. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
184. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
185. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
186. </xs:sequence>
187. </xs:complexType>
188. </xs:element>
189. <xs:element name="RemoveLocalizedNameResponse">
190. <xs:complexType>
191. <xs:sequence/>
192. </xs:complexType>
193. </xs:element>
194. <xs:element name="SaveProperty">
195. <xs:complexType>
196. <xs:sequence>
197. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
198. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="propertyStruct" nillable="true" type="q8:PropertyStruct"/>
199. </xs:sequence>
200. </xs:complexType>
201. </xs:element>
202. <xs:element name="SavePropertyResponse">
203. <xs:complexType>
204. <xs:sequence/>
205. </xs:complexType>
206. </xs:element>
207. <xs:element name="ClearProperties">
208. <xs:complexType>
209. <xs:sequence>
210. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
211. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
212. </xs:sequence>
213. </xs:complexType>
214. </xs:element>
215. <xs:element name="ClearPropertiesResponse">
216. <xs:complexType>
217. <xs:sequence/>
218. </xs:complexType>
219. </xs:element>
220. <xs:element name="RemoveProperty">
221. <xs:complexType>
222. <xs:sequence>
223. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
224. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
225. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
226. </xs:sequence>
227. </xs:complexType>
228. </xs:element>
229. <xs:element name="RemovePropertyResponse">
230. <xs:complexType>
231. <xs:sequence/>
232. </xs:complexType>
233. </xs:element>
234. <xs:element name="GetAccessControlEntries">
235. <xs:complexType>
236. <xs:sequence>
237. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
238. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
239. <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
240. </xs:sequence>
241. </xs:complexType>
242. </xs:element>
243. <xs:element name="GetAccessControlEntriesResponse">
244. <xs:complexType>
245. <xs:sequence>
246. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAccessControlEntriesResult" nillable="true" type="q8:ArrayOfAccessControlEntryStruct"/>
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249. </xs:element>
250. <xs:element name="SetAccessControlEntries">
251. <xs:complexType>
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253. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
254. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="accessControlEntries" nillable="true" type="q8:ArrayOfAccessControlEntryStruct"/>
255. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
256. </xs:sequence>
257. </xs:complexType>
258. </xs:element>
259. <xs:element name="SetAccessControlEntriesResponse">
260. <xs:complexType>
261. <xs:sequence/>
262. </xs:complexType>
263. </xs:element>
264. <xs:element name="MetadataObjectCreate">
265. <xs:complexType>
266. <xs:sequence>
267. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q8:MetadataObjectStruct"/>
268. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
269. </xs:sequence>
270. </xs:complexType>
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272. <xs:element name="MetadataObjectCreateResponse">
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274. <xs:sequence>
275. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="MetadataObjectCreateResult" nillable="true" type="q8:MetadataObjectStruct"/>
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277. </xs:complexType>
278. </xs:element>
279. <xs:element name="Update">
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286. <xs:element name="UpdateResponse">
287. <xs:complexType>
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289. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="UpdateResult" nillable="true" type="q8:MetadataObjectStruct"/>
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291. </xs:complexType>
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293. <xs:element name="Delete">
294. <xs:complexType>
295. <xs:sequence>
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297. </xs:sequence>
298. </xs:complexType>
299. </xs:element>
300. <xs:element name="DeleteResponse">
301. <xs:complexType>
302. <xs:sequence/>
303. </xs:complexType>
304. </xs:element>
305. <xs:element name="MetadataObjectMergeXml">
306. <xs:complexType>
307. <xs:sequence>
308. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
309. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q8:PackageContents"/>
310. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
311. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q8:MetadataObjectStruct"/>
312. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
313. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
314. </xs:sequence>
315. </xs:complexType>
316. </xs:element>
317. <xs:element name="MetadataObjectMergeXmlResponse">
318. <xs:complexType>
319. <xs:sequence>
320. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
321. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q8:MetadataObjectStruct"/>
322. </xs:sequence>
323. </xs:complexType>
324. </xs:element>
325. <xs:element name="MetadataObjectReadXml">
326. <xs:complexType>
327. <xs:sequence>
328. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
329. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
330. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q8:MetadataObjectStruct"/>
331. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
332. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
333. </xs:sequence>
334. </xs:complexType>
335. </xs:element>
336. <xs:element name="MetadataObjectReadXmlResponse">
337. <xs:complexType>
338. <xs:sequence>
339. <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q7:ArrayOfstring"/>
340. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q8:MetadataObjectStruct"/>
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342. </xs:complexType>
343. </xs:element>
344. <xs:element name="MetadataObjectWriteXml">
345. <xs:complexType>
346. <xs:sequence>
347. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
348. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q8:PackageContents"/>
349. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
350. </xs:sequence>
351. </xs:complexType>
352. </xs:element>
353. <xs:element name="MetadataObjectWriteXmlResponse">
354. <xs:complexType>
355. <xs:sequence>
356. <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true" type="xs:string"/>
357. </xs:sequence>
358. </xs:complexType>
359. </xs:element>
360. <xs:element name="CopyAclAcrossChildren">
361. <xs:complexType>
362. <xs:sequence>
363. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
364. </xs:sequence>
365. </xs:complexType>
366. </xs:element>
367. <xs:element name="CopyAclAcrossChildrenResponse">
368. <xs:complexType>
369. <xs:sequence/>
370. </xs:complexType>
371. </xs:element>
372. <xs:element name="CopyAclAcrossChildrenForSetting">
373. <xs:complexType>
374. <xs:sequence>
375. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
376. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
377. </xs:sequence>
378. </xs:complexType>
379. </xs:element>
380. <xs:element name="CopyAclAcrossChildrenForSettingResponse">
381. <xs:complexType>
382. <xs:sequence/>
383. </xs:complexType>
384. </xs:element>
385. <xs:element name="CopyAclToSetting">
386. <xs:complexType>
387. <xs:sequence>
388. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q8:MetadataObjectStruct"/>
389. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
390. </xs:sequence>
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392. </xs:element>
393. <xs:element name="CopyAclToSettingResponse">
394. <xs:complexType>
395. <xs:sequence/>
396. </xs:complexType>
397. </xs:element>
398. <xs:element name="GetCacheInvalidationRecordsSince">
399. <xs:complexType>
400. <xs:sequence>
401. <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
402. </xs:sequence>
403. </xs:complexType>
404. </xs:element>
405. <xs:element name="GetCacheInvalidationRecordsSinceResponse">
406. <xs:complexType>
407. <xs:sequence>
408. <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetCacheInvalidationRecordsSinceResult" nillable="true" type="q8:ArrayOfCacheInvalidationRecordStruct"/>
409. </xs:sequence>
410. </xs:complexType>
411. </xs:element>
412. <xs:element name="ImportPackage">
413. <xs:complexType>
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1626. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
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1694. <xs:sequence>
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1706. </xs:complexType>
1707. </xs:element>
1708. <xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
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1710. <xs:sequence/>
1711. </xs:complexType>
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1713. <xs:element name="GetXmlSchemaForView">
1714. <xs:complexType>
1715. <xs:sequence>
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1720. <xs:element name="GetXmlSchemaForViewResponse">
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1722. <xs:sequence>
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1726. </xs:element>
1727. </xs:schema>

# Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

* Microsoft Office 2010 suites
* Microsoft SharePoint Foundation 2010
* Microsoft Office 2013
* Microsoft SharePoint Foundation 2013
* Microsoft Office 2016
* Microsoft SharePoint Server 2016
* Microsoft Office 2019
* Microsoft SharePoint Server 2019
* Microsoft Office 2021
* Microsoft SharePoint Server Subscription Edition Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.2.4](#Appendix_A_Target_1): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) conform to the Common Language Infrastructure (CLI) as specified in [[ECMA-335]](https://go.microsoft.com/fwlink/?LinkId=93453) and are understood by the Microsoft .NET Framework.

[<2> Section 2.2.4.4](#Appendix_A_Target_2): In SharePoint Foundation 2010 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](#Appendix_A_Target_3): SharePoint Foundation 2010 and SharePoint Foundation 2013 set the values to zero on return.

[<4> Section 2.2.4.22](#Appendix_A_Target_4): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) can be non-empty.

[<5> Section 2.2.4.31](#Appendix_A_Target_5): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this element is ignored, and the **EntityCreate** operation sets the **description** element to NULL in the response.

[<6> Section 2.2.4.41](#Appendix_A_Target_6): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this can be other values.

[<7> Section 2.2.4.51](#Appendix_A_Target_7): 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](#Appendix_A_Target_8): The culture names used by SharePoint Foundation 2010 and SharePoint Foundation 2013 are as specified in [[MSDN-SharePointSDK]](https://go.microsoft.com/fwlink/?LinkID=153289&clcid=0x409).

[<9> Section 2.2.4.53](#Appendix_A_Target_9): 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](#Appendix_A_Target_10): 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](#Appendix_A_Target_11): 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.

1. Value = TypeName \*1(%x2C BusinessLogicModule)
2. BusinessLogicModule = FullAssemblyName / LobSystemName
3. FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C PublicKeyTokenProperty

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [[MS-NRTP]](%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec), section [2.2.1.3](http://msdn.microsoft.com/en-us/library/f236e979-38fb-47d0-9e6f-3c24f12480ac/).

**TypeName:** The name of the type that conforms to the Common Language Infrastructure (CLI) as specified in [ECMA-335] and is understood by the .NET Framework. The format is as specified in [MS-NRTP] section [2.2.1.2](http://msdn.microsoft.com/en-us/library/ece5002e-2076-49a8-9e19-ff6804a95d43/).

**LobSystemName:** The name of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) text. |
| System.Int16 | A number in the range from –32,768 through 32,767. |
| System.Int32 | A number in the range from –2,147,483,648 through 2,147,483,647. |
| System.Int64 | A number in the range from –9,223,372,036,854,775,808 through 9,223,372,036,854,775,807. |
| System.UInt16 | A number in the range from zero through 65535. |
| System.UInt32 | A number in the range from zero through 4,294,967,295. |
| System.UInt64 | A number in the range from zero through 18,446,744,073,709,551,615. |
| System.DateTime | A date and time in the range from midnight, January 1, 0001 through 11:59:59 PM, December 31, 9999, with a resolution of 100 nanoseconds. |
| System.TimeSpan | A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds. |
| System.Single | A single-precision number in the range from –3.402823e38 through 3.402823e38. |
| System.Double | A double-precision number in the range from –1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN. |
| System.Decimal | A number in the range from –79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335. |
| 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**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1). |

[<12> Section 2.2.5.9](#Appendix_A_Target_12): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<13> Section 3.1.4](#Appendix_A_Target_13): 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](#Appendix_A_Target_14): 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](#Appendix_A_Target_15): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<16> Section 3.1.4](#Appendix_A_Target_16): The Business Logic Module conforms to [ECMA-335] specification and is understood by the .NET Framework.

[<17> Section 3.1.4](#Appendix_A_Target_17): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

[<18> Section 3.1.4](#Appendix_A_Target_18): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation returns zero TypeDescriptors.

[<19> Section 3.1.4](#Appendix_A_Target_19): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

[<20> Section 3.1.4](#Appendix_A_Target_20): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

[<21> Section 3.1.4](#Appendix_A_Target_21): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the [**security principal (2)**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<22> Section 3.1.4](#Appendix_A_Target_22): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<23> Section 3.1.4](#Appendix_A_Target_23): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<24> Section 3.1.4](#Appendix_A_Target_24): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

[<25> Section 3.1.4](#Appendix_A_Target_25): SharePoint Foundation 2010 and SharePoint Foundation 2013 ignore the level parameter when retrieving the **TypeDescriptors**.

[<26> Section 3.1.4](#Appendix_A_Target_26): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

[<27> Section 3.1.4.4.2.1](#Appendix_A_Target_27): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if **model** is not null, the **PartitionId** element of the **Model** is same as the **PartitionId** of these Entities.

[<28> Section 3.1.4.4.2.2](#Appendix_A_Target_28): In SharePoint Foundation 2010 and SharePoint Foundation 2013, the **PartitionId** elements of these [**Entities**](#gt_3b609270-c0f5-4220-8cf0-4c328f73684e) are not an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b).

[<29> Section 3.1.4.13](#Appendix_A_Target_29): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section [2.2.4](#Section_f28411e8b8834e31a333def2a24378d8), in this case.

[<30> Section 3.1.4.13](#Appendix_A_Target_30): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<31> Section 3.1.4.16](#Appendix_A_Target_31): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<32> Section 3.1.4.16.2.1](#Appendix_A_Target_32): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<33> Section 3.1.4.18](#Appendix_A_Target_33): In SharePoint Foundation 2010 and SharePoint Foundation 2013, a security principal (2) is authorized to export a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), if the same security principal (2) is authorized to modify the same **MetadataObject**.

[<34> Section 3.1.4.19](#Appendix_A_Target_34): The Business Logic Module conforms to [ECMA-335] specification and is understood by the .NET Framework.

[<35> Section 3.1.4.23](#Appendix_A_Target_35): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<36> Section 3.1.4.23](#Appendix_A_Target_36): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<37> Section 3.1.4.24](#Appendix_A_Target_37): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<38> Section 3.1.4.25](#Appendix_A_Target_38): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<39> Section 3.1.4.26](#Appendix_A_Target_39): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<40> Section 3.1.4.32](#Appendix_A_Target_40): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<41> Section 3.1.4.32](#Appendix_A_Target_41): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<42> Section 3.1.4.34](#Appendix_A_Target_42): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<43> Section 3.1.4.35](#Appendix_A_Target_43): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<44> Section 3.1.4.36](#Appendix_A_Target_44): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#Section_c646c61b22b84d1fbd3d6e23f0b87f5c)) in this case.

[<45> Section 3.1.4.37](#Appendix_A_Target_45): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<46> Section 3.1.4.38](#Appendix_A_Target_46): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

[<47> Section 3.1.4.39](#Appendix_A_Target_47): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<48> Section 3.1.4.40](#Appendix_A_Target_48): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation returns zero TypeDescriptors.

[<49> Section 3.1.4.40](#Appendix_A_Target_49): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<50> Section 3.1.4.40](#Appendix_A_Target_50): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<51> Section 3.1.4.42](#Appendix_A_Target_51): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<52> Section 3.1.4.44](#Appendix_A_Target_52): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<53> Section 3.1.4.44](#Appendix_A_Target_53): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<54> Section 3.1.4.45](#Appendix_A_Target_54): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<55> Section 3.1.4.47](#Appendix_A_Target_55): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<56> Section 3.1.4.49](#Appendix_A_Target_56): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

[<57> Section 3.1.4.49](#Appendix_A_Target_57): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

[<58> Section 3.1.4.50](#Appendix_A_Target_58): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** complex type (section [2.2.4.25](#Section_74cdd9625a6c465ead9003b4dc242944)) in this case.

[<59> Section 3.1.4.55](#Appendix_A_Target_59): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<60> Section 3.1.4.55](#Appendix_A_Target_60): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<61> Section 3.1.4.57](#Appendix_A_Target_61): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<62> Section 3.1.4.57](#Appendix_A_Target_62): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<63> Section 3.1.4.59](#Appendix_A_Target_63): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<64> Section 3.1.4.59](#Appendix_A_Target_64): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<65> Section 3.1.4.60](#Appendix_A_Target_65): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

[<66> Section 3.1.4.60](#Appendix_A_Target_66): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

[<67> Section 3.1.4.61](#Appendix_A_Target_67): Microsoft SharePoint Foundation 2010 Service Pack 1 and SharePoint Foundation 2013 do respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **ArgumentNullException**.

[<68> Section 3.1.4.62](#Appendix_A_Target_68): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

[<69> Section 3.1.4.63](#Appendix_A_Target_69): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

[<70> Section 3.1.4.63](#Appendix_A_Target_70): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<71> Section 3.1.4.63](#Appendix_A_Target_71): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<72> Section 3.1.4.63.2.2](#Appendix_A_Target_72): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

[<73> Section 3.1.4.64](#Appendix_A_Target_73): SharePoint Foundation 2010 (SP1) and SharePoint Foundation 2013 do respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **BdcExceptionState**.

[<74> Section 3.1.4.65](#Appendix_A_Target_74): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<75> Section 3.1.4.65](#Appendix_A_Target_75): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<76> Section 3.1.4.65](#Appendix_A_Target_76): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<77> Section 3.1.4.66](#Appendix_A_Target_77): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<78> Section 3.1.4.66](#Appendix_A_Target_78): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<79> Section 3.1.4.66.2.2](#Appendix_A_Target_79): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

[<80> Section 3.1.4.67](#Appendix_A_Target_80): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

[<81> Section 3.1.4.68](#Appendix_A_Target_81): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

[<82> Section 3.1.4.68](#Appendix_A_Target_82): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<83> Section 3.1.4.68](#Appendix_A_Target_83): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<84> Section 3.1.4.71](#Appendix_A_Target_84): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<85> Section 3.1.4.72](#Appendix_A_Target_85): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<86> Section 3.1.4.73](#Appendix_A_Target_86): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<87> Section 3.1.4.73](#Appendix_A_Target_87): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<88> Section 3.1.4.76](#Appendix_A_Target_88): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<89> Section 3.1.4.79](#Appendix_A_Target_89): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<90> Section 3.1.4.79](#Appendix_A_Target_90): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<91> Section 3.1.4.82.2.2](#Appendix_A_Target_91): SharePoint Foundation 2010 and SharePoint Foundation 2013 require the identifier to be in the following format as expressed in ABNF as specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096):

1. Identifier = TypeName \*1(%x2C FullAssemblyName)
2. 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].

[<92> Section 3.1.4.84](#Appendix_A_Target_92): SharePoint Foundation 2010 and SharePoint Foundation 2013 ignore the level parameter when retrieving the **TypeDescriptors**.

[<93> Section 3.1.4.84.2.1](#Appendix_A_Target_93): In SharePoint Foundation 2010 and SharePoint Foundation 2013, **level** is ignored. Only **name**, **parameterId** and **partitionId** are used.

[<94> Section 3.1.4.87](#Appendix_A_Target_94): In the case where the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) is an [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740), SharePoint Foundation 2010 and SharePoint Foundation 2013 do not respond with a fault, instead return an invalid response, which MUST be ignored by the protocol client.

[<95> Section 3.1.4.87.2.2](#Appendix_A_Target_95): SharePoint Foundation 2010 and SharePoint Foundation 2013 use [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) value "http://tempuri.org/XMLSchema.xsd/" concatenated with the namespace of the Entity that contains the specified MethodInstance.

[<96> Section 3.1.4.87.2.2](#Appendix_A_Target_96): SharePoint Foundation 2010 and SharePoint Foundation 2013 use XML namespace value "http://schemas.microsoft.com/windows/2007/BusinessDataCatalog/Annotations".

[<97> Section 3.1.4.92.2.2](#Appendix_A_Target_97): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation returns false.

[<98> Section 3.1.4.93](#Appendix_A_Target_98): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<99> Section 3.1.4.93.2.2](#Appendix_A_Target_99): 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**.

[<100> Section 3.1.4.94](#Appendix_A_Target_100): 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**.

[<101> Section 3.1.4.94](#Appendix_A_Target_101): 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](#Section_e95c84a859914110a2cbe38c12196ca4)).

[<102> Section 3.1.4.95](#Appendix_A_Target_102): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

[<103> Section 3.1.4.96](#Appendix_A_Target_103): 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.

[<104> Section 3.1.4.96.2.2](#Appendix_A_Target_104): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

[<105> Section 3.1.4.97](#Appendix_A_Target_105): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** (section 2.2.4.25) in this case MetadataObject is LobSystem.

[<106> Section 3.1.4.97](#Appendix_A_Target_106): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

[<107> Section 3.1.4.97](#Appendix_A_Target_107): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** (section 2.2.4.25) in this case MetadataObject is LobSystem.

[<108> Section 3.1.4.108](#Appendix_A_Target_108): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<109> Section 3.1.4.110](#Appendix_A_Target_109): 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.

[<110> Section 3.1.4.111](#Appendix_A_Target_110): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<111> Section 3.1.4.111](#Appendix_A_Target_111): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<112> Section 3.1.4.111](#Appendix_A_Target_112): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<113> Section 3.1.4.111](#Appendix_A_Target_113): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<114> Section 3.1.4.111](#Appendix_A_Target_114): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<115> Section 3.1.4.111](#Appendix_A_Target_115): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

[<116> Section 3.1.4.111](#Appendix_A_Target_116): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<117> Section 3.1.4.111](#Appendix_A_Target_117): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<118> Section 3.1.4.111](#Appendix_A_Target_118): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<119> Section 3.1.4.111](#Appendix_A_Target_119): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<120> Section 3.1.4.111](#Appendix_A_Target_120): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<121> Section 3.1.4.111](#Appendix_A_Target_121): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<122> Section 3.1.4.111](#Appendix_A_Target_122): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** complex type (section 2.2.4.25).

[<123> Section 3.1.4.111](#Appendix_A_Target_123): 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.

[<124> Section 3.1.4.111.2.1](#Appendix_A_Target_124): 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**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e).

[<125> Section 3.1.4.112](#Appendix_A_Target_125): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

# 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](mailto:dochelp@microsoft.com).

| Section | Description | Revision class |
| --- | --- | --- |
| [3.1.4](#Section_a48544a39ac54bc39341bde4075abd15) Message Processing Events and Sequencing Rules | Changed MethodObjectStruct to MetadataObjectStruct. | Minor |
| [8](#Section_5602998520ee43f9b02bbfba821b3923) Appendix C: Product Behavior | Updated list of supported products. | major |
| 8 Appendix C: Product Behavior | Updated list of supported products. | Major |

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