# [MS-SSMDSWS]:
# Master Data Services Web Service

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## Revision Summary

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| 11/06/2009 | 0.1 | Major | First release. |
| 03/05/2010 | 1.0 | Major | Updated and revised the technical content. |
| 04/21/2010 | 2.0 | Major | Updated and revised the technical content. |
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| 09/03/2010 | 3.0.1 | Editorial | Changed language and formatting in the technical content. |
| 02/09/2011 | 3.0.1 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 07/07/2011 | 4.0 | Major | Significantly changed the technical content. |
| 11/03/2011 | 4.0 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 01/19/2012 | 5.0 | Major | Significantly changed the technical content. |
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| 10/23/2012 | 7.0 | No change | No changes to the meaning, language, or formatting of the technical content. |
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# 1 Introduction

The SQL Server Master Data Services Web Service document specifies the **SOAP** protocol for all functions within Master Data Services.

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

## 1.1 Glossary

The following terms are defined in [MS-GLOS]:

**globally unique identifier (GUID)**
**SOAP**
**Web Services Description Language (WSDL)**
**WSDL message**
**WSDL port type**
**XML namespace**
**XML schema**

The following terms are specific to this document:

**action:** A **business rule** argument that determines what occurs when the business rule is run at validation time.

**business rule:** A user-defined process that can proactively manage data within the Master Data Services database.

**child:** A data item within the Master Data Services system that has a superior data item. A child in Master Data Services can be a **leaf member** or a **consolidated member**.

**collection:** A user-defined group of data items from the same **entity**.

**condition:** A **business rule** argument that determines when to apply the **actions** of the business rule. Conditions can be parsed together by using the logical operators AND and OR.

**consolidated member:** A container **member** within the Master Data Services system. Consolidated members can be superior to **leaf members** or to other consolidated members.

**entity:** Tabular data that is stored within the Master Data Services system.

**hierarchy:** An arrangement of data items within the Master Data Services system in a ranked or graduated series.

**leaf member:** A standard **member** of any **entity** within the Master Data Services system.

**master data:** The nouns of the business, master data are non-transactional data sets that provide context to the organization.

**member:** A single **master data** record that is stored in the Master Data Services system.

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

- Entities



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- Attributes and attribute groups
- Explicit and derived hierarchies
- Collections

A model contains entities. Entities contain attributes, explicit hierarchies, and collections. Attributes can be contained in attribute groups. Domain-based attributes (DBAs) exist when an entity is used as an attribute for another entity.

**parent:** A data item within the Master Data Services system that can contain **child members**.

**publish:** An operation that makes **business rules** available for use within the Master Data Services system.

**version:** A snapshot of data **members** within a model that may correspond to a specific period of time.

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

## 1.2 References

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

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624, as an additional source.

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., Layman, A., Mendelsohn, N., Nielsen, H. F., Thatte, S., and Winer, D., "Simple Object Access Protocol (SOAP) 1.1", May 2000, http://www.w3.org/TR/2000/NOTE-SOAP-20000508/

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

[WSDLSOAP] Angelov, D., Ballinger, K., Butek, R., et al., "WSDL 1.1 Binding Extension for SOAP 1.2", W3c Member Submission, April 2006, http://www.w3.org/Submission/wsdl11soap12/

[XMLNS3] World Wide Web Consortium, "Namespaces in XML 1.0 (Third Edition)", December 2009, http://www.w3.org/TR/2009/REC-xml-names-20091208/

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



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

### 1.2.2 Informative References

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

[MSDN-SQLXML] Microsoft Corporation, "SQLXML", http://msdn.microsoft.com/en-us/library/aa286527.aspx

## 1.3 Overview

The SQL Server Master Data Services service and API provide two main functions:

- Adoption of a service-oriented design architecture (SOA) that encapsulates and modularizes the internal workings of the product
- Creation of a standard API to interact and integrate with SQL Server Master Data Services

The SQL Server Master Data Services framework ensures that the internal functions of the product are better modularized to support both an API and a modular component development.

In this document, the term "services" includes but is not necessarily limited to web services. "Services" means a modular architecture based on the Windows Communication Foundation (WCF).

## 1.4 Relationship to Other Protocols

SQL Server Master Data Services Web Services uses SOAP over HTTP as shown in the following layering diagram.

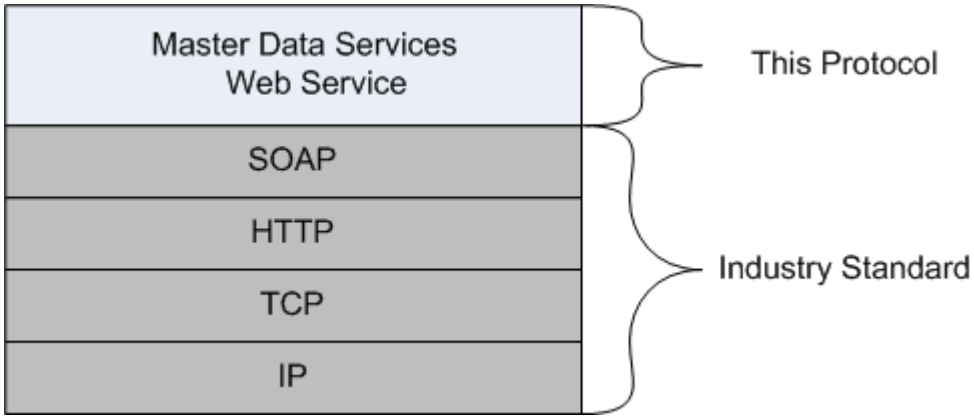


**Figure 1: SOAP over HTTP**

SQL Server Master Data Services Web Services uses SOAP over HTTPS as shown in the following layering diagram.



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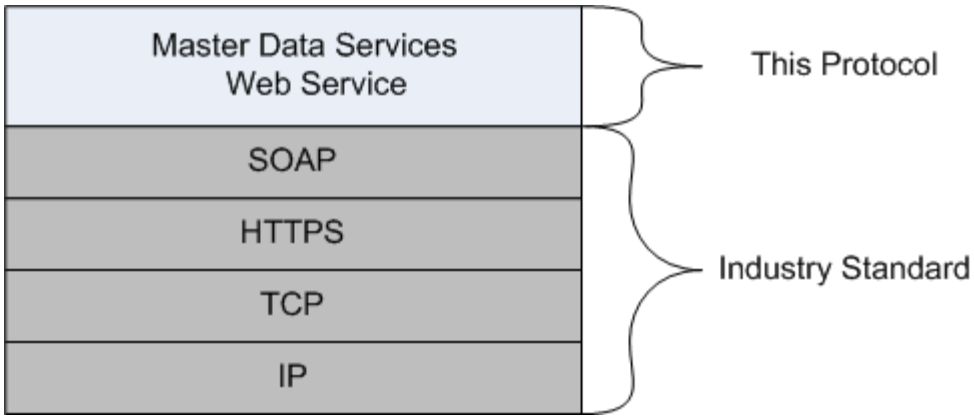


**Figure 2: SOAP over HTTPS**

## 1.5 Prerequisites/Preconditions

None.

## 1.6 Applicability Statement

The SQL Server Master Data Services Web Service Protocol should be used in all instances when automating interactions with the Master Data Services (MDS) system. This protocol encapsulates all the MDS functionality that is exposed to the user.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues for the SQL Server Master Data Services Web Service Protocol in the following areas:

- **Supported Transports:** This protocol uses multiple transports with SOAP as specified in section 2.1.
- **Protocol Versions:** This protocol has a separate **Web Services Description Language (WSDL)** port type for each version. These versions are defined in section 3.1.
- **Security and Authentication Methods:** This protocol supports the following authentication methods: LANMAN, NTLM, and Kerberos.
- **Localization:** This protocol includes text strings in various messages.
- **Capability Negotiation:** The Ethernet protocol does not support negotiation of the interface version to use. There are no additional versions of API to negotiate at this time.

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.



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# 2 Messages

## 2.1 Transport

The SOAP 1.1 web service message protocol (as specified in [SOAP1.1]) and SOAP 1.2 (as specified in [WSDLSOAP]) are supported.

## 2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema** as defined in [XMLSCHEMA1] and [XMLSCHEMA2], and it uses Web Services Description Language (WSDL) as defined in [WSDL].

### 2.2.1 Namespaces

This specification defines and references various **XML namespaces** by using the mechanisms that are specified in [XMLNS3]. Although this specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

| Prefix | Namespace URI | Reference |
|---|---|---|
| xsd | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1]<br>[XMLSCHEMA2] |
| xsi | http://www.w3.org/2001/XMLSchema-instance | [XMLSCHEMA1]<br>[XMLSCHEMA2] |
| Sql | urn:schemas-microsoft-com:xml-sql | [MSDN-SQLXML] |
| mds | urn:schemas-microsoft-com:xml-mds | |
| tns | Standard namespace for MDS web service | |
| ser | Standard security namespace for MDS web service | |

### 2.2.2 Messages

| Message | Description |
|---|---|
| MessageResponse | Specifies the standard response message for a successful operation. |
| SecurityPrincipalsRequest | Specifies the parameters that are used to filter the list that is returned from a principals request. |
| SecurityPrivilegesRequest | Specifies the common parameters for a security privileges operation. |

#### 2.2.2.1 MessageResponse

The **MessageResponse** is a standard message that is returned when the provided information is updated successfully within MDS.

The following is the WSDL definition of the **MessageResponse** message.



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```
<wsdl:message name="MessageResponse">
<wsdl:part name="parameters" element="tns:MessageResponse"/>
</wsdl:message>
```

#### 2.2.2.1.1 MessageResponse

The **MessageResponse** element contains the **OperationResult** corresponding to the result of the MDS operation that is performed.

The following is the XML schema definition of the **MessageResponse** element.

```
<xs:element name="MessageResponse">
<xs:complexType>
<xs:sequence>
<xs:element xmlns:q53="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
minOccurs="0" name="OperationResult" nillable="true" type="q53:OperationResult" />
</xs:sequence>
</xs:complexType>
</xs:element>
```

### 2.2.2.2 SecurityPrincipalsRequest

The **SecurityPrincipalsRequest** message specifies the parameters that are used to filter the list of returned **SecurityPrincipals**.

The following is the WSDL definition of the **SecurityPrincipalsRequest** message.

```
<wsdl:message name="SecurityPrincipalsRequest">
<wsdl:part name="parameters" element="tns:SecurityPrincipalsRequest"/>
</wsdl:message>
```

### 2.2.2.3 SecurityPrivilegesRequest

The **SecurityPrivilegesRequest** message specifies the common parameters for a security privileges operation.

The following is the WSDL definition of the **SecurityPrivilegesRequest** message.

```
<wsdl:message name="SecurityPrivilegesRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrivilegesRequest" />
  </wsdl:message>
```

## 2.2.3 Elements

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

| Element | Description |
|---|---|
| SecurityPrincipalsRequest | Specifies the principals, properties, and permissions for creation or update of |



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| Element | Description |
| --- | --- |
| | security privileges. |
| SecurityPrivilegesRequest | Specifies the security privileges that are requested for security privileges operations. |

### 2.2.3.1 SecurityPrincipalsRequest

The **SecurityPrincipalsRequest** request element specifies the principals, properties, and permissions for creation or update of security privileges.

The following is the XML schema definition of the **SecurityPrincipalsRequest** element.

```
  <xs:element name="SecurityPrincipalsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q95="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Principals" nillable="true" type="q95:SecurityPrincipals" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Principals**: Specifies the SecurityPrincipals complex type.

### 2.2.3.2 SecurityPrivilegesRequest

The **SecurityPrivilegesRequest** request element specifies the security privileges that are requested for security privileges operations.

The following is the XML schema definition of the **SecurityPrivilegesRequest** element.

```
<xs:element name="SecurityPrivilegesRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q103="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Privileges" nillable="true" type="q103:SecurityPrivileges" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Privileges**: Specifies the SecurityPrivileges complex type.

## 2.2.4 Complex Types

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



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| Complex type | Description |
|---|---|
| Annotation | The **member** transaction metadata. |
| ArrayOfAnnotation | A **collection** of **Annotation** complex types. |
| ArrayOfAttribute | A collection of **Attribute** complex types. |
| ArrayOfAttributeDataType | A collection of **AttributeDataType** simple types. |
| ArrayOfAttributeGroup | A collection of **AttributeGroup** complex types. |
| ArrayOfBRAction | A collection of **BRAction** complex types. |
| ArrayOfBRActionComponent | A collection of **BRActionComponent** complex types. |
| ArrayOfBRActionGroup | A collection of **BRActionGroup** complex types. |
| ArrayOfBRAttributeTypeInfo | A collection of **BRAttributeTypeInfo** complex types. |
| ArrayOfBRCondition | A collection of **BRCondition** complex types. |
| ArrayOfBRConditionComponent | A collection of **BRConditionComponent** complex types. |
| ArrayOfBRConditionGroup | A collection of **BRConditionGroup** complex types. |
| ArrayOfBRConditionTreeNode | A collection of **BRConditionTreeNode** complex types. |
| ArrayOfBRFreeformArgument | A collection of **BRFreeformArgument** complex types. |
| ArrayOfBusinessRule | A collection of **BusinessRule** complex types. |
| ArrayOfCollection | A collection of **Collection** complex types. |
| ArrayOfDerivedHierarchy | A collection of **DerivedHierarchy** complex types. |
| ArrayOfDerivedHierarchyLevel | A collection of **DerivedHierarchyLevel** complex types. |
| ArrayOfEntity | A collection of **Entity** complex types. |
| ArrayOfEntityMembers | A collection of **EntityMembers** complex types. |
| ArrayOfEntityMemberType | A collection of **EntityMemberType** complex types. |
| ArrayOfError | A collection of **Error** complex types. |
| ArrayOfExplicitHierarchy | A collection of **ExplicitHierarchy** complex types. |
| ArrayOfExportView | A collection of **ExportView** complex types. |
| ArrayOfFunctionPrivilege | A collection of **FunctionPrivilege** complex types. |



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| Complex type | Description |
| --- | --- |
| ArrayOfGroup | A collection of **Group** complex types. |
| ArrayOfHierarchyMemberPrivilege | A collection of **HierarchyMemberPrivilege** complex types. |
| ArrayOfIdentifier | A collection of **Identifier** complex types. |
| ArrayOfKeyValueOfstringstring | A collection of dictionaries that have key/value pairs. |
| ArrayOfMember | A collection of **Member** complex types. |
| ArrayOfMemberIdentifier | A collection of **MemberIdentifier** complex types. |
| ArrayOfMemberType | A collection of **MemberType** complex types. |
| ArrayOfMetaDataAttribute | A collection of **MetadataAttribute** complex types. |
| ArrayOfModel | A collection of **Model** complex types. |
| ArrayOfModelPrivilege | A collection of **ModelPrivilege** complex types. |
| ArrayOfParent | A collection of **Parent** complex types. |
| ArrayOfParentChild | A collection of **ParentChild** complex types. |
| ArrayOfStagingBatch | A collection of **StagingBatch** complex types. |
| ArrayOfStagingBatchError | A collection of **StagingBatchError** complex types. |
| ArrayOfStagingUnbatchedInformation | A collection of **StagingUnbatchedInformation** complex types. |
| ArrayOfSystemDomainList | A collection of **SystemDomainList** complex types. |
| ArrayOfSystemDomainListItem | A collection of **SystemDomainListItem** complex types. |
| ArrayOfSystemSetting | A collection of **SystemSetting** complex types. |
| ArrayOfSystemSettingGroup | A collection of **SystemSettingGroup** complex types. |
| ArrayOfTransaction | A collection of **Transaction** complex types. |
| ArrayOfUser | A collection of **User** complex types. |
| ArrayOfValidationIssue | A collection of **ValidationIssue** complex types. |
| ArrayOfVersion | A collection of **Version** complex types. |
| ArrayOfVersionFlag | A collection of **VersionFlag** complex types. |
| Attribute | An **entity** attribute complex type. |



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| Complex type | Description |
|---|---|
| AttributeGroup | A custom-defined group of attributes to provide organization to large amounts of entity attributes. |
| AuditInfo | The audit information that is appended to numerous complex types. |
| BRAction | A value to be set or a validation to occur when certain **conditions** of the **business rule** are met. |
| BRActionComponent | **Action** components within business rules. |
| BRActionGroup | A collection of all **BRActionComponent** complex types that are available within MDS, grouped into similar types. |
| BRArgument | An argument base for business rules. |
| BRAttributeArgument | An argument that references attributes instead of values. |
| BRAttributeArgumentBase | A base for all **BRAttributeArgument** types. |
| BRAttributeTypeInfo | The attribute type information for business rule attributes. |
| BRAttributeValueArgument | A domain-based attribute value argument. |
| BRBlankArgument | A blank business rule argument. |
| BRCondition | A logical equation that turns the **BRAction** validation and creation processes on and off. |
| BRConditionComponent | The condition components within business rules. |
| BRConditionGroup | A group of similar conditions that are available for creation of business rules. |
| BRConditionTreeNode | A complex condition node by which to define a complex logical structure. |
| BRDomainBasedAttributeArgument | An inherited domain-based attribute argument (for example, color.hue). |
| BRFreeformArgument | A business rule for string, number, link, and date arguments. |
| BRHierarchyArgument | Explicit **parent** business rule arguments. |
| BRItem | The complete **BRAction** or **BRCondition** item with the attached logical operator. |
| BRItemTypeComponent | A business rule component. |
| BusinessRule | A logical construct for data management. |
| BusinessRules | A container for conditions and actions. |



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| Complex type | Description |
| --- | --- |
| BusinessRulesPalette | A collection of all potential conditions and actions for building business rules in MDS. |
| Collection | A collection member that is a parent of another **master data** member. |
| DerivedHierarchy | The synthesized parent-**child hierarchy** from cascading pre-existing data relationships. |
| DerivedHierarchyContextIdentifier | The contextual identifier for the **DerivedHierarchy** complex type. |
| DerivedHierarchyLevel | A single level within the derived hierarchy data relationship tree. |
| Entity | A tabular grouping of members in MDS. |
| EntityContextIdentifier | A group of identifiers that provide entity context to hierarchies. |
| EntityMembers | A collection of the members from a single entity and member type. |
| EntityMemberType | The structure of an entity in MDS. |
| Error | A complex type of Master Data Management errors. |
| ErrorContext | The context for the **Error** complex type. |
| ExplicitHierarchy | The consolidated leaf hierarchical groupings in MDS. |
| ExportView | The creation of a subscription view for MDS. |
| FunctionPrivilege | The functional level access to MDS. |
| Group | An internal system object that refers to one or more users that can be granted security privileges within MDS. |
| HierarchyMemberPrivilege | Data value-based access to MDS for a user or group. |
| Identifier | A **globally unique identifier (GUID)** that is attached to all system tables within the MDS database. |
| MdmDataContractOfDerivedHierarchyContextIdentifier | The data contract for the **DerivedHierarchyContextIdentifier** complex type. |
| MdmDataContractOfEntityContextIdentifier | The data contract for the **EntityContextIdentifier** complex type. |
| MdmDataContractOfIdentifier | The data contract of an entity. |
| MdmDataContractOfMemberTypeContextIdentifier | A data contract for the |



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| Complex type | Description |
| --- | --- |
| | **MemberTypeContextIdentifier** complex type. |
| MdmDataContractOfModelContextIdentifier | The context identifier for a specific **model** in the MDS system. |
| Member | An **EntityMember** complex type. |
| MemberAttributeIdentifier | **MemberIdentifier** for attributes that have not been loaded because of errors on the server side. |
| MemberIdentifier | A set of identifiers for a master data member including the code and name of the member and the member type. |
| MemberTypeContextIdentifier | A set of identifiers for a master data model object that exists in the context of an entity and member type. |
| Metadata | The objects in the MDS system, such as **Model** and **Entity**. |
| MetaDataAttribute | Information related to an attribute for an entity in Master Data Services. |
| Model | The highest grouping of entities in MDS. |
| ModelContextIdentifier | A set of identifiers for a master data model object that exists in the context of a model. |
| ModelPrivilege | A model/object level privilege within the MDS system. |
| OperationResult | The results from metadata operations. |
| Parent | A **consolidated member** node in a hierarchy. |
| ParentChild | An explicit hierarchy relationship. |
| SecurityPrincipals | User and group objects in MDS. |
| SecurityPrivileges | The privilege levels in MDS. |
| StagingBatch | The context for a staging batch. |
| StagingBatchError | The errors in the staging batch process. |
| StagingBatchInformation | The information for the staging batch. |
| StagingUnbatchedInformation | The records in the **tblStgMember**, **tblStgMemberAttribute**, and **tblStgRelationship** tables that are not already in a specific batch. |
| SystemDomainList | A list of standard text choices that are associated with the MDS application. |
| SystemDomainListItem | A business entity that represents an item in a system domain list. |



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| Complex type | Description |
|---|---|
| SystemSetting | The administrative level setting in MDS. |
| SystemSettingGroup | A collection of related system settings that have related MDS functionality. |
| Transaction | Any master data changes together with the user and time information that is associated with the change. |
| User | An Active Directory user that is added in MDS. |
| ValidationIssue | A business rule validation error. |
| Version | A snapshot of all members within a model. |
| VersionFlag | A custom label for an MDS **version** to aid in integration automation. |

### 2.2.4.1 Annotation

The **Annotation** complex type specifies an annotation (comment) on a transaction or member.

The following is the XML schema definition of the **Annotation** complex type.

```
<xs:complexType name="Annotation">
  <xs:sequence>
    <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
    <xs:element minOccurs="0" name="Comment" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Id" type="xs:int" />
  </xs:sequence>
</xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Comment**: Specifies the comment text.

**Id**: Specifies the unique integer ID of the annotation.

### 2.2.4.2 ArrayOfAnnotation

The **ArrayOfAnnotation** complex type specifies a collection of Annotation complex types.

The following is the XML schema definition of the **ArrayOfAnnotation** complex type.

```
<xs:complexType name="ArrayOfAnnotation">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Annotation" nillable="true"
type="tns:Annotation" />
  </xs:sequence>
</xs:complexType>
```

**Annotation**: Specifies the **Annotation** complex type.



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### 2.2.4.3 ArrayOfAttribute

The **ArrayOfAttribute** complex type specifies a collection of Attribute complex types.

The following is the XML schema definition of the **ArrayOfAttribute** complex type.

```
<xs:complexType name="ArrayOfAttribute">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Attribute" nillable="true"
type="tns:Attribute" />
  </xs:sequence>
</xs:complexType>
```

**Attribute**: Specifies the **Attribute** complex type.

### 2.2.4.4 ArrayOfAttributeDataType

The **ArrayOfAttributeDataType** complex type specifies a collection of AttributeDataType simple types.

The following is the XML schema definition of the **ArrayOfAttributeDataType** complex type.

```
<xs:complexType name="ArrayOfAttributeDataType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AttributeDataType"
type="tns:AttributeDataType" />
  </xs:sequence>
</xs:complexType>
```

**AttributeDataType**: Specifies the **AttributeDataType** simple type.

### 2.2.4.5 ArrayOfAttributeGroup

The **ArrayOfAttributeGroup** complex type specifies a collection of AttributeGroup complex types.

The following is the XML schema definition of the **ArrayOfAttributeGroup** complex type.

```
<xs:complexType name="ArrayOfAttributeGroup">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AttributeGroup" nillable="true"
type="tns:AttributeGroup" />
  </xs:sequence>
</xs:complexType>
```

**AttributeGroup**: Specifies the **AttributeGroup** complex type.

### 2.2.4.6 ArrayOfBRAction

The **ArrayOfBRAction** complex type specifies a collection of BRAction complex types.

The following is the XML schema definition of the **ArrayOfBRAction** complex type.

```
<xs:complexType name="ArrayOfBRAction">
  <xs:sequence>
```



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```
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRAction" nillable="true"
type="tns:BRAction" />
    </xs:sequence>
  </xs:complexType>
```

**BRAction**: Specifies the **BRAction** complex type.

### 2.2.4.7 ArrayOfBRActionComponent

The **ArrayOfBRActionComponent** complex type specifies a collection of BRActionComponent complex types.

The following is the XML schema definition of the **ArrayOfBRActionComponent** complex type.

```
  <xs:complexType name="ArrayOfBRActionComponent">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRActionComponent"
nillable="true" type="tns:BRActionComponent" />
    </xs:sequence>
  </xs:complexType>
```

**BRActionComponent**: Specifies the **BRActionComponent** complex type.

### 2.2.4.8 ArrayOfBRActionGroup

The **ArrayOfBRActionGroup** complex type specifies a collection of BRActionGroup complex types.

The following is the XML schema definition of the **ArrayOfBRActionGroup** complex type.

```
  <xs:complexType name="ArrayOfBRActionGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRActionGroup" nillable="true"
type="tns:BRActionGroup" />
    </xs:sequence>
  </xs:complexType>
```

**BRActionGroup**: Specifies the **BRActionGroup** complex type.

### 2.2.4.9 ArrayOfBRAttributeTypeInfo

The **ArrayOfBRAttributeTypeInfo** complex type specifies a collection of BRAttributeTypeInfo complex types.

The following is the XML schema definition of the **ArrayOfBRAttributeTypeInfo** complex type.

```
  <xs:complexType name="ArrayOfBRAttributeTypeInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRAttributeTypeInfo"
nillable="true" type="tns:BRAttributeTypeInfo" />
    </xs:sequence>
  </xs:complexType>
```

**BRAttributeTypeInfo**: Specifies the **BRAttributeTypeInfo** complex type.



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### 2.2.4.10 ArrayOfBRCondition

The **ArrayOfBRCondition** complex type specifies a collection of BRCondition complex types.

The following is the XML schema definition of the **ArrayOfBRCondition** complex type.

```
  <xs:complexType name="ArrayOfBRCondition">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRCondition" nillable="true"
type="tns:BRCondition" />
    </xs:sequence>
  </xs:complexType>
```

**BRCondition**: Specifies the **BRCondition** complex type.

### 2.2.4.11 ArrayOfBRConditionComponent

The **ArrayOfBRConditionComponent** complex type specifies a collection of BRConditionComponent complex types.

The following is the XML schema definition of the **ArrayOfBRConditionComponent** complex type.

```
  <xs:complexType name="ArrayOfBRConditionComponent">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRConditionComponent"
nillable="true" type="tns:BRConditionComponent" />
    </xs:sequence>
  </xs:complexType>
```

**BRConditionComponent**: Specifies the **BRConditionComponent** complex type.

### 2.2.4.12 ArrayOfBRConditionGroup

The **ArrayOfBRConditionGroup** complex type specifies a collection of BRConditionGroup complex types.

The following is the XML schema definition of the **ArrayOfBRConditionGroup** complex type.

```
  <xs:complexType name="ArrayOfBRConditionGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRConditionGroup" nillable="true"
type="tns:BRConditionGroup" />
    </xs:sequence>
  </xs:complexType>
```

**BRConditionGroup**: Specifies the **BRConditionGroup** complex type.

### 2.2.4.13 ArrayOfBRConditionTreeNode

The **ArrayOfBRConditionTreeNode** complex type specifies a collection of BRConditionTreeNode complex types.

The following is the XML schema definition of the **ArrayOfBRConditionTreeNode** complex type.



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```
  <xs:complexType name="ArrayOfBRConditionTreeNode">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRConditionTreeNode"
nillable="true" type="tns:BRConditionTreeNode" />
    </xs:sequence>
  </xs:complexType>
```

**BRConditionTreeNode**: Specifies the **BRConditionTreeNode** complex type.

### 2.2.4.14 ArrayOfBRFreeformArgument

The **ArrayOfBRFreeformArgument** complex type specifies a collection of BRFreeformArgument complex types.

The following is the XML schema definition of the **ArrayOfBRFreeformArgument** complex type.

```
  <xs:complexType name="ArrayOfBRFreeformArgument">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BRFreeformArgument"
nillable="true" type="tns:BRFreeformArgument" />
    </xs:sequence>
  </xs:complexType>
```

**BRFreeformArgument**: Specifies the **BRFreeformArgument** complex type.

### 2.2.4.15 ArrayOfBusinessRule

The **ArrayOfBusinessRule** complex type specifies a collection of BusinessRule complex types.

The following is the XML schema definition of the **ArrayOfBusinessRule** complex type.

```
  <xs:complexType name="ArrayOfBusinessRule">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="BusinessRule" nillable="true"
type="tns:BusinessRule" />
    </xs:sequence>
  </xs:complexType>
```

**BusinessRule**: Specifies the **BusinessRule** complex type.

### 2.2.4.16 ArrayOfCollection

The **ArrayOfCollection** complex type specifies a collection of Collection complex types.

The following is the XML schema definition of the **ArrayOfCollection** complex type.

```
  <xs:complexType name="ArrayOfCollection">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Collection" nillable="true"
type="tns: Collection" />
    </xs:sequence>
  </xs:complexType>
```



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**Collection**: Specifies the **Collection** complex type.

### 2.2.4.17 ArrayOfDerivedHierarchy

The **ArrayOfDerivedHierarchy** complex type specifies a collection of DerivedHierarchy complex types.

The following is the XML schema definition of the **ArrayOfDerivedHierarchy** complex type.

```
  <xs:complexType name="ArrayOfDerivedHierarchy">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DerivedHierarchy" nillable="true"
type="tns:DerivedHierarchy" />
    </xs:sequence>
  </xs:complexType>
```

**DerivedHierarchy**: Specifies the **DerivedHierarchy** complex type.

### 2.2.4.18 ArrayOfDerivedHierarchyLevel

The **ArrayOfDerivedHierarchyLevel** complex type specifies a collection of DerivedHierarchyLevel complex types.

The following is the XML schema definition of the **ArrayOfDerivedHierarchyLevel** complex type.

```
  <xs:complexType name="ArrayOfDerivedHierarchyLevel">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DerivedHierarchyLevel"
nillable="true" type="tns:DerivedHierarchyLevel" />
    </xs:sequence>
  </xs:complexType>
```

**DerivedHierarchyLevel**: Specifies the **DerivedHierarchyLevel** complex type.

### 2.2.4.19 ArrayOfEntity

The **ArrayOfEntity** complex type specifies a collection of Entity complex types.

The following is the XML schema definition of the **ArrayOfEntity** complex type.

```
  <xs:complexType name="ArrayOfEntity">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Entity" nillable="true"
type="tns:Entity" />
    </xs:sequence>
  </xs:complexType>
```

**Entity**: Specifies the **Entity** complex type.

### 2.2.4.20 ArrayOfEntityMembers

The **ArrayOfEntityMembers** complex type specifies a collection of EntityMembers.

The following is the XML schema definition of the **ArrayOfEntityMembers** complex type.



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```
  <xs:complexType name="ArrayOfEntityMembers">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityMembers" nillable="true"
type="tns:EntityMembers" />
    </xs:sequence>
  </xs:complexType>
```

**EntityMembers**: Specifies the **EntityMembers** complex type.

### 2.2.4.21 ArrayOfEntityMemberType

The **ArrayOfEntityMemberType** complex type specifies a collection of EntityMemberType complex types.

The following is the XML schema definition of the **ArrayOfEntityMemberType** complex type.

```
  <xs:complexType name="ArrayOfEntityMemberType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityMemberType" nillable="true"
type="tns:EntityMemberType" />
    </xs:sequence>
  </xs:complexType>
```

**EntityMemberType**: Specifies the **EntityMemberType** complex type.

### 2.2.4.22 ArrayOfError

The **ArrayOfError** complex type specifies a collection of Error complex types.

The following is the XML schema definition of the **ArrayOfError** complex type.

```
  <xs:complexType name="ArrayOfError">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Error" nillable="true"
type="tns:Error" />
    </xs:sequence>
  </xs:complexType>
```

**Error**: Specifies the **Error** complex type.

### 2.2.4.23 ArrayOfExplicitHierarchy

The **ArrayOfExplicitHierarchy** complex type specifies a collection of ExplicitHierarchy complex types.

The following is the XML schema definition of the **ArrayOfExplicitHierarchy** complex type.

```
  <xs:complexType name="ArrayOfExplicitHierarchy">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ExplicitHierarchy"
nillable="true" type="tns:ExplicitHierarchy" />
    </xs:sequence>
  </xs:complexType>
```



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**ExplicitHierarchy**: Specifies the **ExplicitHierarchy** complex type.

### 2.2.4.24 ArrayOfExportView

The **ArrayOfExportView** complex type specifies a collection of ExportView complex types.

The following is the XML schema definition of the **ArrayOfExportView** complex type.

```
  <xs:complexType name="ArrayOfExportView">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ExportView" nillable="true"
type="tns:ExportView" />
    </xs:sequence>
  </xs:complexType>
```

**ExportView**: Specifies the **ExportView** complex type.

### 2.2.4.25 ArrayOfFunctionPrivilege

The **ArrayOfFunctionPrivilege** complex type specifies a collection of FunctionPrivilege complex types.

The following is the XML schema definition of the **ArrayOfFunctionPrivilege** complex type.

```
  <xs:complexType name="ArrayOfFunctionPrivilege">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="FunctionPrivilege"
nillable="true" type="tns:FunctionPrivilege" />
    </xs:sequence>
  </xs:complexType>
```

**FunctionPrivilege**: Specifies the **FunctionPrivilege** complex type.

### 2.2.4.26 ArrayOfGroup

The **ArrayOfGroup** complex type specifies a collection of Group complex types.

The following is the XML schema definition of the **ArrayOfGroup** complex type.

```
  <xs:complexType name="ArrayOfGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Group" nillable="true"
type="tns:Group" />
    </xs:sequence>
  </xs:complexType>
```

**Group**: Specifies the **Group** complex type.

### 2.2.4.27 ArrayOfHierarchyMemberPrivilege

The **ArrayOfHierarchyMemberPrivilege** complex type specifies a collection of HierarchyMemberPrivilege complex types.



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The following is the XML schema definition of the **ArrayOfHierarchyMemberPrivilege** complex type.

```
  <xs:complexType name="ArrayOfHierarchyMemberPrivilege">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="HierarchyMemberPrivilege"
nillable="true" type="tns:HierarchyMemberPrivilege" />
    </xs:sequence>
  </xs:complexType>
```

**HierarchyMemberPrivilege**: Specifies the **HierarchyMemberPrivilege** complex type.

### 2.2.4.28 ArrayOfIdentifier

The **ArrayOfIdentifier** complex type specifies a collection of Identifier complex types.

The following is the XML schema definition of the **ArrayOfIdentifier** complex type.

```
  <xs:complexType name="ArrayOfIdentifier">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Identifier" nillable="true"
type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**Identifier**: Specifies the **Identifier** complex type.

### 2.2.4.29 ArrayOfKeyValueOfstringstring

The **ArrayOfKeyValueOfstringstring** complex type specifies a collection of dictionaries that have key/value pairs.

The following is the XML schema definition of the **ArrayOfKeyValueOfstringstring** complex type.

```
<xs:complexType name="ArrayOfKeyValueOfstringstring">
    <xs:annotation>
      <xs:appinfo>
        <IsDictionary
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsDictionary>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringstring">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element name="Value" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
```

**Key**: Specifies the unique identifier for some data.



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**Value**: Specifies the data identified by the **Key**.

### 2.2.4.30 ArrayOfMember

The **ArrayOfMember** complex type specifies a collection of Member complex types.

The following is the XML schema definition of the **ArrayOfMember** complex type.

```
  <xs:complexType name="ArrayOfMember">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Member" nillable="true"
type="tns:Member" />
    </xs:sequence>
  </xs:complexType>
```

**Member**: Specifies the **Member** complex type.

### 2.2.4.31 ArrayOfMemberIdentifier

The **ArrayOfMemberIdentifier** complex type specifies a collection of MemberIdentifier complex types.

The following is the XML schema definition of the **ArrayOfMemberIdentifier** complex type.

```
  <xs:complexType name="ArrayOfMemberIdentifier">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="MemberIdentifier" nillable="true"
type="tns:MemberIdentifier" />
    </xs:sequence>
  </xs:complexType>
```

**MemberIdentifier**: Specifies the **MemberIdentifier** complex type.

### 2.2.4.32 ArrayOfMemberType

The **ArrayOfMemberType** complex type specifies a collection of MemberType simple types.

The following is the XML schema definition of the **ArrayOfMemberType** complex type.

```
  <xs:complexType name="ArrayOfMemberType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="MemberType" type="tns:MemberType"
/>
    </xs:sequence>
  </xs:complexType>
```

**MemberType**: Specifies the **MemberType** simple type.

### 2.2.4.33 ArrayOfMetaDataAttribute

The **ArrayOfMetaDataAttribute** complex type specifies a collection of MetadataAttribute complex types.

The following is the XML schema definition of the **ArrayOfMetadataAttribute** complex type.



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```
  <xs:complexType name="ArrayOfMetadataAttribute">
    <xs:sequence>
      <xs:element
xmlns:q199="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MetadataAttribute" nillable="true" type="q199:MetadataAttribute"
/>
    </xs:sequence>
  </xs:complexType>
```

**MetaDataAttribute**: Specifies the **MetaDataAttribute** complex type.

### 2.2.4.34 ArrayOfModel

The **ArrayOfModel** complex type specifies a collection of Model complex types.

The following is the XML schema definition of the **ArrayOfModel** complex type.

```
  <xs:complexType name="ArrayOfModel">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Model" nillable="true"
type="tns:Model" />
    </xs:sequence>
  </xs:complexType>
```

**Model**: Specifies the **Model** complex type.

### 2.2.4.35 ArrayOfModelPrivilege

The **ArrayOfModelPrivilege** complex type specifies a collection of ModelPrivilege complex types.

The following is the XML schema definition of the **ArrayOfModelPrivilege** complex type.

```
  <xs:complexType name="ArrayOfModelPrivilege">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelPrivilege" nillable="true"
type="tns:ModelPrivilege" />
    </xs:sequence>
  </xs:complexType>
```

**ModelPrivilege**: Specifies the **ModelPrivilege** complex type.

### 2.2.4.36 ArrayOfParent

The **ArrayOfParent** complex type specifies a collection of Parent complex types.

The following is the XML schema definition of the **ArrayOfParent** complex type.

```
  <xs:complexType name="ArrayOfParent">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Parent" nillable="true"
type="tns:Parent" />
    </xs:sequence>
  </xs:complexType>
```



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**Parent**: Specifies the **Parent** complex type.

### 2.2.4.37 ArrayOfParentChild

The **ArrayOfParentChild** complex type specifies a collection of ParentChild complex types.

The following is the XML schema definition of the **ArrayOfParentChild** complex type.

```
  <xs:complexType name="ArrayOfParentChild">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ParentChild" nillable="true"
type="tns:ParentChild" />
    </xs:sequence>
  </xs:complexType>
```

**ParentChild**: Specifies the **ParentChild** complex type.

### 2.2.4.38 ArrayOfStagingBatch

The **ArrayOfStagingBatch** complex type specifies a collection of StagingBatch complex types.

The following is the XML schema definition of the **ArrayOfStagingBatch** complex type.

```
  <xs:complexType name="ArrayOfStagingBatch">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="StagingBatch" nillable="true"
type="tns:StagingBatch" />
    </xs:sequence>
  </xs:complexType>
```

**StagingBatch**: Specifies the **StagingBatch** complex type.

### 2.2.4.39 ArrayOfStagingBatchError

The **ArrayOfStagingBatchError** complex type specifies a collection of StagingBatchError complex types.

The following is the XML schema definition of the **ArrayOfStagingBatchError** complex type.

```
  <xs:complexType name="ArrayOfStagingBatchError">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="StagingBatchError"
nillable="true" type="tns:StagingBatchError" />
    </xs:sequence>
  </xs:complexType>
```

**StagingBatchError**: Specifies the **StagingBatchError** complex type.

### 2.2.4.40 ArrayOfStagingUnbatchedInformation

The **ArrayOfStagingUnbatchedInformation** complex type specifies a collection of StagingUnbatchedInformation complex types.



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The following is the XML schema definition of the **ArrayOfStagingUnbatchedInformation** complex type.

```
  <xs:complexType name="ArrayOfStagingUnbatchedInformation">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="StagingUnbatchedInformation"
nillable="true" type="tns:StagingUnbatchedInformation" />
    </xs:sequence>
  </xs:complexType>
```

**StagingUnbatchedInformation**: Specifies the **StagingUnbatchedInformation** complex type.

### 2.2.4.41 ArrayOfSystemDomainList

The **ArrayOfSystemDomainList** complex type specifies a collection of SystemDomainList complex types.

The following is the XML schema definition of the **ArrayOfSystemDomainList** complex type.

```
<xs:complexType name="ArrayOfSystemDomainList">
    <xs:sequence>
      <xs:element
xmlns:q292="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemDomainList" nillable="true" type="q292:SystemDomainList" />
    </xs:sequence>
  </xs:complexType>
```

**SystemDomainList**: Specifies the **SystemDomainList** complex type.

### 2.2.4.42 ArrayOfSystemDomainListItem

The **ArrayOfSystemDomainListItem** complex type specifies a collection of SystemDomainListItem complex types.

The following is the XML schema definition of the **ArrayOfSystemDomainListItem** complex type.

```
<xs:complexType name="ArrayOfSystemDomainListItem">
    <xs:sequence>
      <xs:element
xmlns:q281="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemDomainListItem" nillable="true"
type="q281:SystemDomainListItem" />
    </xs:sequence>
  </xs:complexType>
```

**SystemDomainListItem**: Specifies the **SystemDomainListItem** complex type.

### 2.2.4.43 ArrayOfSystemSetting

The **ArrayOfSystemSetting** complex type specifies a collection of SystemSetting complex types.

The following is the XML schema definition of the **ArrayOfSystemSetting** complex type.

```
  <xs:complexType name="ArrayOfSystemSetting">
```



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```
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SystemSetting" nillable="true"
type="tns:SystemSetting" />
    </xs:sequence>
  </xs:complexType>
```

**SystemSetting**: Specifies the **SystemSetting** complex type.

### 2.2.4.44 ArrayOfSystemSettingGroup

The **ArrayOfSystemSettingGroup** complex type specifies a collection of SystemSettingGroup complex types.

The following is the XML schema definition of the **ArrayOfSystemSettingGroup** complex type.

```
  <xs:complexType name="ArrayOfSystemSettingGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SystemSettingGroup"
nillable="true" type="tns:SystemSettingGroup" />
    </xs:sequence>
  </xs:complexType>
```

**SystemSettingGroup**: Specifies the **SystemSettingGroup** complex type.

### 2.2.4.45 ArrayOfTransaction

The **ArrayOfTransaction** complex type specifies a collection of Transaction complex types.

The following is the XML schema definition of the **ArrayOfTransaction** complex type.

```
  <xs:complexType name="ArrayOfTransaction">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Transaction" nillable="true"
type="tns:Transaction" />
    </xs:sequence>
  </xs:complexType>
```

**Transaction**: Specifies the **Transaction** complex type.

### 2.2.4.46 ArrayOfUser

The **ArrayOfUser** complex type specifies a collection of User complex types.

The following is the XML schema definition of the **ArrayOfUser** complex type.

```
  <xs:complexType name="ArrayOfUser">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="User" nillable="true"
type="tns:User" />
    </xs:sequence>
  </xs:complexType>
```

**User**: Specifies the **User** complex type.



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### 2.2.4.47 ArrayOfValidationIssue

The **ArrayOfValidationIssue** complex type specifies a collection of ValidationIssue complex types.

The following is the XML schema definition of the **ArrayOfValidationIssue** complex type.

```
<xs:complexType name="ArrayOfValidationIssue">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ValidationIssue" nillable="true"
type="tns:ValidationIssue" />
  </xs:sequence>
</xs:complexType>
```

**ValidationIssue**: Specifies the **ValidationIssue** complex type.

### 2.2.4.48 ArrayOfVersion

The **ArrayOfVersion** complex type specifies a collection of Version complex types.

The following is the XML schema definition of the **ArrayOfVersion** complex type.

```
<xs:complexType name="ArrayOfVersion">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Version" nillable="true"
type="tns:Version" />
  </xs:sequence>
</xs:complexType>
```

**Version**: Specifies the **Version** complex type.

### 2.2.4.49 ArrayOfVersionFlag

The **ArrayOfVersionFlag** complex type specifies a collection of VersionFlag complex types.

The following is the XML schema definition of the **ArrayOfVersionFlag** complex type.

```
<xs:complexType name="ArrayOfVersionFlag">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="VersionFlag" nillable="true"
type="tns:VersionFlag" />
  </xs:sequence>
</xs:complexType>
```

**VersionFlag**: Specifies the **VersionFlag** complex type.

### 2.2.4.50 Attribute

The **Attribute** complex type specifies a master data attribute, including its identification and data value.

The following is the XML schema definition of the **Attribute** complex type.

```
<xs:complexType name="Attribute">
  <xs:sequence>
```



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```
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Type" type="tns:AttributeValueType" />
      <xs:element minOccurs="0" name="Value" nillable="true" type="xs:anyType" />
    </xs:sequence>
  </xs:complexType>
```

**Identifier**: Specifies the Identifier of the attribute metadata object.

**Type**: Specifies the AttributeValueType or the type of value that is stored by the attribute.

**Value**: Specifies the value that is assigned to the master data attribute as a variant data type.

### 2.2.4.51 AttributeGroup

The **AttributeGroup** complex type specifies a custom grouping of attributes that can contain a subset of the entity attributes and that can set a display order of these attributes. The attributes can be in multiple attribute groups.

The following is the XML schema definition of the **AttributeGroup** complex type.

```
  <xs:complexType name="AttributeGroup">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfMemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="tns:ArrayOfMetaDataAttribute" />
          <xs:element minOccurs="0" name="FullName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="IsNameCodeFrozen" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**Attributes**: Specifies the ArrayOfMetaDataAttribute complex type.

**FullName**: Specifies a string that specifies the full name of the attribute group.

**IsNameCodeFrozen**: Specifies a **Boolean** that specifies whether the **Name** and **Code** fields should be static in the user interface.

**IsSystem**: Specifies a **Boolean** that specifies whether the attribute group is created by the MDS system.

**SortOrder**: Specifies an integer value that specifies the sort order of attribute groups.

### 2.2.4.52 AuditInfo

The **AuditInfo** complex type specifies a common complex type that is used to store object modification history.

The following is the XML schema definition of the **AuditInfo** complex type.

```
  <xs:complexType name="AuditInfo">
```



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```
    <xs:sequence>
      <xs:element minOccurs="0" name="CreatedDateTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="CreatedUserId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="CreatedVersionId" nillable="true" type="tns:Identifier"
/>
      <xs:element minOccurs="0" name="UpdatedDateTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="UpdatedUserId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="UpdatedVersionId" nillable="true" type="tns:Identifier"
/>
    </xs:sequence>
  </xs:complexType>
```

**CreatedDateTime**: Specifies the date and time at which the associated object was created.

**CreatedUserId**: Specifies the Identifier of the user who created the associated object.

**CreatedVersionId**: Specifies the **Identifier** of the version in which the associated object was created.

**UpdatedDateTime**: Specifies the date and time at which the associated object was last updated.

**UpdatedUserId**: Specifies the **Identifier** of the user who last updated the object.

**UpdatedVersionId**: Specifies the **Identifier** of the version in which the associated object was last updated.

### 2.2.4.53 BRAction

The **BRAction** complex type specifies a value creation or validation action within a created business rule.

The following is the XML schema definition of the **BRAction** complex type.

```
  <xs:complexType name="BRAction">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRItem">
        <xs:sequence>
          <xs:element minOccurs="0" name="PrefixArgument" nillable="true"
type="tns:BRAttributeArgument" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**PrefixArgument**: Specifies the BRAttributeArgument complex type.

### 2.2.4.54 BRActionComponent

The **BRActionComponent** complex type specifies the action components of business rules. **BRActionComponent** extends the BRItemTypeComponent complex type.

The following is the XML schema definition of the **BRActionComponent** complex type.

```
  <xs:complexType name="BRActionComponent">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRItemTypeComponent">
```



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

### 2.2.4.55 BRActionGroup

The **BRActionGroup** complex type specifies a grouping of related business rule action components that are currently available for use in MDS.

The following is the XML schema definition of the **BRActionGroup** complex type.

```
  <xs:complexType name="BRActionGroup">
    <xs:sequence>
      <xs:element minOccurs="0" name="BRActionComponents" nillable="true"
type="tns:ArrayOfBRActionComponent" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
```

**BRActionComponents**: Specifies the ArrayOfBRActionComponent complex type.

**Name**: Specifies a string identifier for the business rule action group.

### 2.2.4.56 BRArgument

The **BRArgument** complex type specifies the base type for all business rule arguments.

The following is the XML schema definition of the **BRArgument** complex type.

```
<xs:complexType name="BRArgument">
  <xs:sequence>
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="PropertyName" type="tns:BRPropertyName" />
  </xs:sequence>
</xs:complexType>
```

**Identifier**: Specifies the Identifier complex type.

**PropertyName**: Specifies the BRPropertyName simple type.

### 2.2.4.57 BRAttributeArgument

The **BRAttributeArgument** complex type specifies the argument type for comparing attributes within a business rule. This is the values that are set for each member as opposed to a specific value against all members. **BRAttributeArgument** extends the BRAttributeArgumentBase complex type.

The following is the XML schema definition of the **BRAttributeArgument** complex type.

```
<xs:complexType name="BRAttributeArgument">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BRAttributeArgumentBase">
      <xs:sequence>
```



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```
          <xs:element minOccurs="0" name="ChildArguments" nillable="true"
type="tns:ArrayOfBRFreeformArgument" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**ChildArguments**: Specifies the ArrayOfBRFreeformArgument complex type.

### 2.2.4.58 BRAttributeArgumentBase

The **BRAttributeArgumentBase** complex type specifies a base complex type for business rule attribute arguments. **BRAttributeArgumentBase** extends the BRArgument complex type.

The following is the XML schema definition of the **BRAttributeArgumentBase** complex type.

```
  <xs:complexType name="BRAttributeArgumentBase">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true" type="tns:Identifier"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**AttributeId**: Specifies the Identifier complex type.

### 2.2.4.59 BRAttributeTypeInfo

The **BRAttributeTypeInfo** complex type specifies the attribute type information for business rule attributes.

The following is the XML schema definition of the **BRAttributeTypeInfo** complex type.

```
  <xs:complexType name="BRAttributeTypeInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeDataTypes" nillable="true"
type="tns:ArrayOfAttributeDataType" />
      <xs:element minOccurs="0" name="AttributeType" type="tns:AttributeType" />
    </xs:sequence>
  </xs:complexType>
```

**AttributeDataTypes**: Specifies the ArrayOfAttributeDataType complex type.

**AttributeType**: Specifies the AttributeType simple type.

### 2.2.4.60 BRAttributeValueArgument

The **BRAttributeValueArgument** complex type specifies the BRArgument freeform value set in conditions and validation actions.

The following is the XML schema definition of the **BRAttributeValueArgument** complex type.



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```
<xs:complexType name="BRAttributeValueArgument">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BRArgument">
      <xs:sequence>
        <xs:element minOccurs="0" name="AttributeCode" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**AttributeCode**: Specifies a string value that is to be compared in an argument.

### 2.2.4.61 BRBlankArgument

The **BRBlankArgument** complex type is used to create business rules in an evaluation against a blank argument, and is used where the BRArgument complex type is used.

The following is the XML schema definition of the **BRBlankArgument** complex type.

```
<xs:complexType name="BRBlankArgument">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BRArgument">
      <xs:sequence />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

### 2.2.4.62 BRCondition

The **BRCondition** complex type specifies a container for conditions to be evaluated to trigger actions that are defined in a created business rule.

The following is the XML schema definition of the **BRCondition** complex type.

```
<xs:complexType name="BRCondition">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BRItem">
      <xs:sequence>
        <xs:element minOccurs="1" name="ConditionTreeNodeId" nillable="true"
type="tns:Identifier" />
        <xs:element minOccurs="0" name="PrefixArgument" nillable="true" type="xs:anyType"
/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**ConditionTreeNodeId**: Specifies the Identifier complex type.

**PrefixArgument**: Specifies a prefix argument to define the logic of a business rule.



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### 2.2.4.63 BRConditionComponent

The **BRConditionComponent** complex type specifies condition components of business rules. **BRConditionComponent** extends the BRItemTypeComponent complex type.

The following is the XML schema definition of the **BRConditionComponent** complex type.

```
<xs:complexType name="BRConditionComponent">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BRItemTypeComponent">
      <xs:sequence />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

### 2.2.4.64 BRConditionGroup

The **BRConditionGroup** complex type specifies a group of conditions that have a similar type of logical evaluator.

The following is the XML schema definition of the **BRConditionGroup** complex type.

```
<xs:complexType name="BRConditionGroup">
  <xs:sequence>
    <xs:element minOccurs="0" name="BRConditionComponents" nillable="true"
type="tns:ArrayOfBRConditionComponent" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**BRConditionComponents**: The ArrayOfBRConditionComponent complex type.

**Name**: Specifies a grouping of condition components.

### 2.2.4.65 BRConditionTreeNode

The **BRConditionTreeNode** complex type specifies a node within a possible complex logic tree in a business rule in MDS. A **BRConditionTreeNode** MUST exist for each business rule condition that is created.

The following is the XML schema definition of the **BRConditionTreeNode** complex type.

```
<xs:complexType name="BRConditionTreeNode">
  <xs:sequence>
    <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
    <xs:element minOccurs="0" name="BRConditions" nillable="true"
type="tns:ArrayOfBRCondition" />
    <xs:element minOccurs="0" name="BusinessRuleId" nillable="true"
type="tns:MemberTypeContextIdentifier" />
    <xs:element minOccurs="0" name="ConditionTreeChildNodes" nillable="true"
type="tns:ArrayOfBRConditionTreeNode" />
    <xs:element minOccurs="0" name="ConditionTreeParentNode" nillable="true"
type="tns:Identifier" />
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="LogicalOperator" type="tns:LogicalOperator" />
    <xs:element minOccurs="0" name="Sequence" type="xs:int" />
```



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

**AuditInfo**: Specifies the AuditInfo complex type.

**BRConditions**: Specifies the ArrayOfBRCondition complex type.

**BusinessRuleId**: Specifies the MemberTypeContextIdentifier complex type.

**ConditionTreeChildNodes**: Specifies the ArrayOfBRConditionTreeNode complex type.

**ConditionTreeParentNode**: Specifies the Identifier complex type.

**Identifier**: Specifies the **Identifier** complex type.

**LogicalOperator**: Specifies the LogicalOperator simple type.

**Sequence**: Specifies an integer value that represents the order in which the tree node should be displayed and evaluated.

### 2.2.4.66 BRDomainBasedAttributeArgument

The **BRDomainBasedAttributeArgument** complex type specifies the container for defining arguments based on values in related entity attributes. **BRDomainBasedAttributeArgument** extends the BRAttributeArgumentBase complex type.

The following is the WSDL definition of the **BRDomainBasedAttributeArgument** complex type.

```
  <xs:complexType name="BRDomainBasedAttributeArgument">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRAttributeArgumentBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ChildArgument" nillable="true"
type="tns:BRAttributeArgument" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**ChildArgument**: The BRAttributeArgument complex type.

### 2.2.4.67 BRFreeformArgument

The **BRFreeformArgument** complex type specifies the freeform argument type for business rule arguments. **BRFreeformArgument** extends the BRArgument complex type.

The following is the XML schema definition of the **BRFreeformArgument** complex type.

```
  <xs:complexType name="BRFreeformArgument">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
        </xs:sequence>
```



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

**Value**: Specifies a string that represents the business rule freeform argument.

### 2.2.4.68 BRHierarchyArgument

The **BRHierarchyArgument** complex type holds the business rule arguments that relate to child members from an explicit hierarchy. **BRHierarchyArgument** extends the BRArgument complex type.

The following is the XML schema definition of the **BRHierarchyArgument** complex type.

```
  <xs:complexType name="BRHierarchyArgument">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="ChildArgument" nillable="true"
type="tns:BRAttributeArgument" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**ChildArgument**: Specifies the BRAttributeArgument complex type.

**HierarchyId**: Specifies the Identifier complex type.

### 2.2.4.69 BRItem

The **BRItem** complex type specifies a logical part of a complete business rule.

The following is the XML schema definition of the **BRItem** complex type.

```
  <xs:complexType name="BRItem">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="BusinessRuleId" nillable="true"
type="tns:MemberTypeContextIdentifier" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Operator" type="tns:BRItemType" />
      <xs:element xmlns:q49="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="PostfixArguments" nillable="true" type="q49:ArrayOfAnyType" />
      <xs:element minOccurs="0" name="Sequence" type="xs:int" />
      <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**BusinessRuleId**: Specifies the MemberTypeContextIdentifier complex type.



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**Identifier**: Specifies the Identifier complex type.

**Operator**: Specifies the BRItemType simple type.

**PostfixArguments**: Specifies an **ArrayOfAnyType**.

**Sequence**: Specifies an integer value that represents the order in which business rule items should be displayed and evaluated.

**Text**: Specifies the text describing the business rule item.

### 2.2.4.70 BRItemTypeComponent

The **BRItemTypeComponent** complex type specifies the base-level components type of business rules.

The following is the XML schema definition of the **BRItemTypeComponent** complex type.

```
  <xs:complexType name="BRItemTypeComponent">
    <xs:sequence>
      <xs:element minOccurs="0" name="CompatibleAttributeTypes" nillable="true"
type="tns:ArrayOfBRAttributeTypeInfo" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ItemType" type="tns:BRItemType" />
    </xs:sequence>
  </xs:complexType>
```

**CompatibleAttributeTypes**: Specifies the ArrayOfBRAttributeTypeInfo complex type.

**Description**: Specifies a description of the component.

**ItemType**: Specifies the BRItemType simple type.

### 2.2.4.71 BusinessRule

The **BusinessRule** complex type specifies a business rule container object.

The following is the XML schema definition of the **BusinessRule** complex type.

```
  <xs:complexType name="BusinessRule">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="BRActions" nillable="true" type="tns:ArrayOfBRAction"
/>
      <xs:element minOccurs="0" name="BRConditionTree" nillable="true"
type="tns:BRConditionTreeNode" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Identifier" nillable="true"
type="tns:MemberTypeContextIdentifier" />
      <xs:element minOccurs="0" name="IsSystemRule" type="xs:boolean" />
      <xs:element minOccurs="0" name="NotificationGroup" nillable="true" type="ser:guid" />
      <xs:element minOccurs="0" name="NotificationUser" nillable="true" type="ser:guid" />
      <xs:element minOccurs="0" name="Priority" type="xs:int" />
      <xs:element minOccurs="0" name="RuleActionText" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="RuleConditionText" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Status" type="tns:BRStatus" />
    </xs:sequence>
```



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

**AuditInfo**: Specifies the AuditInfo complex type.

**BRActions**: Specifies the ArrayOfBRAction complex type.

**BRConditionTree**: Specifies the BRConditionTreeNode complex type.

**Description**: Specifies a description of the business rule.

**Identifier**: Specifies the business rule identifier.

**IsSystemRule**: Specifies a **Boolean** value that indicates whether the rule has been created by the MDS system.

**RuleActionText**: Specifies a string representation of business rule actions that are included in the current business rule.

**RuleConditionText**: Specifies a string representation of business rule conditions that are included in the current business rule.

**Status**: Specifies the BRStatus simple type.

### 2.2.4.72 BusinessRules

The **BusinessRules** complex type specifies containers for conditions and actions.

The following is the XML schema definition of the **BusinessRules** complex type.

```
  <xs:complexType name="BusinessRules">
    <xs:sequence>
      <xs:element minOccurs="0" name="BRActions" nillable="true" type="tns:ArrayOfBRAction"
/>
      <xs:element minOccurs="0" name="BRConditionTreeNodes" nillable="true"
type="tns:ArrayOfBRConditionTreeNode" />
      <xs:element minOccurs="0" name="BRConditions" nillable="true"
type="tns:ArrayOfBRCondition" />
      <xs:element minOccurs="0" name="BusinessRules" nillable="true"
type="tns:ArrayOfBusinessRule" />
    </xs:sequence>
  </xs:complexType>
```

**BRActions**: Specifies the ArrayOfBRAction complex type.

**BRConditionTreeNodes**: Specifies the ArrayOfBRConditionTreeNode complex type.

**BRConditions**: Specifies the ArrayOfBRCondition complex type.

**BusinessRules**: Specifies the ArrayOfBusinessRule complex type.

### 2.2.4.73 BusinessRulesPalette

The **BusinessRulesPalette** complex type is a collection of all possible actions and conditions that are used for building business rules within the MDS system.

The following is the XML schema definition of the **BusinessRulesPalette** complex type.



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```
  <xs:complexType name="BusinessRulesPalette">
    <xs:sequence>
      <xs:element minOccurs="0" name="BRActionGroups" nillable="true"
type="tns:ArrayOfBRActionGroup" />
      <xs:element minOccurs="0" name="BRConditionGroups" nillable="true"
type="tns:ArrayOfBRConditionGroup" />
    </xs:sequence>
  </xs:complexType>
```

**BRActionGroups**: Specifies the ArrayOfBRActionGroup complex type.

**BRConditionGroups**: Specifies the ArrayOfBRConditionGroup complex type.

### 2.2.4.74 Collection

The **Collection** complex type specifies a collection member that is a parent of another master data member.

The following is the XML schema definition of the **Collection** complex type.

```
  <xs:complexType name="Collection">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q39="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q39:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="CollectionId" nillable="true"
type="q39:MemberIdentifier" />
          <xs:element minOccurs="0" name="Remove" type="xs:boolean" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**CollectionId**: Specifies the MemberIdentifier of the parent collection member.

**Remove**: Specifies a **Boolean** value that is set to true in Update operations to remove a member from the identified parent collection.

**SortOrder**: Specifies the sort order for related member of the collection.

### 2.2.4.75 DerivedHierarchy

The **DerivedHierarchy** complex type specifies an already defined data relationship and prepares that relationship to be displayed in a hierarchical fashion.

The following is the XML schema definition of the **DerivedHierarchy** complex type.

```
  <xs:complexType name="DerivedHierarchy">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
```



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```
          <xs:element minOccurs="0" name="Levels" nillable="true"
type="tns:ArrayOfDerivedHierarchyLevel" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**FullyQualifiedName**: Specifies the string value of the fully qualified name of the entity.

**Levels**: Specifies the ArrayOfDerivedHierarchyLevel complex type.

### 2.2.4.76 DerivedHierarchyContextIdentifier

The **DerivedHierarchyContextIdentifier** complex type specifies a set of IDs for a master data model object that exists in the context of a derived hierarchy. This complex type includes identifiers for the context of the object, including the parent derived hierarchy and model. This complex type is used by derived hierarchy levels and is an extension of the base type ModelContextIdentifier.

The following is the XML schema definition of the **DerivedHierarchyContextIdentifier** complex type.

```
  <xs:complexType name="DerivedHierarchyContextIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:ModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DerivedHierarchyId" nillable="true"
type="tns:Identifier" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**DerivedHierarchyId**: Specifies the Identifier of the parent derived hierarchy of the object.

### 2.2.4.77 DerivedHierarchyLevel

The **DerivedHierarchyLevel** complex type specifies a single level within the derived hierarchy data relationship tree. **DerivedHierarchyLevel** extends the MdmDataContractOfDerivedHierarchyContextIdentifier complex type.

The following is the XML schema definition of the **DerivedHierarchyLevel** complex type.

```
  <xs:complexType name="DerivedHierarchyLevel">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfDerivedHierarchyContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ForeignEntityId" nillable="true"
type="tns:Identifier" />
          <xs:element minOccurs="0" name="ForeignId" nillable="true" type="tns:Identifier" />
          <xs:element
xmlns:q41="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="ForeignType" type="q41:HierarchyItemType" />
          <xs:element minOccurs="0" name="IsVisible" type="xs:boolean" />
          <xs:element minOccurs="0" name="LevelNumber" type="xs:int" />
          <xs:element minOccurs="0" name="MemberType" type="tns:MemberType" />
```



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

**DisplayName**: Specifies the string name to be displayed.

**ForeignEntityId**: Specifies the Identifier complex type.

**ForeignId**: Specifies the **Identifier** complex type.

**ForeignType**: Specifies the HierarchyItemType simple type.

**IsVisible**: Specifies a **Boolean** value to express the visibility of the level.

**LevelNumber**: Specifies an integer that represents the depth of the level.

**MemberType**: Specifies the MemberType simple type.

### 2.2.4.78 Entity

The **Entity** complex type specifies a container for members and their attribute values and explicit hierarchy. **Entity** extends the MdmDataContractOfModelContextIdentifier complex type.

The following is the XML schema definition of the **Entity** complex type.

```
  <xs:complexType name="Entity">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="tns:ArrayOfExplicitHierarchy" />
          <xs:element minOccurs="0" name="IsBase" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsFlat" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="MemberTypes" nillable="true"
type="tns:ArrayOfEntityMemberType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**ExplicitHierarchies**: Specifies the ArrayOfExplicitHierarchy complex type.

**IsBase**: Specifies a flag that determines whether an entity shows on a model explorer initial screen as a main entity.

**IsFlat**: Specifies a flag that determines whether an entity supports explicit hierarchies.

**IsSystem**: Specifies a flag that indicates whether an entity was created by the MDS system. System entities cannot be deleted.

**MemberTypes**: Specifies the ArrayOfEntityMemberType complex type.



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### 2.2.4.79 EntityContextIdentifier

The **EntityContextIdentifier** complex type specifies a set of IDs for a master data model object that exists in the context of an entity. This type includes identifiers for the context of the object, including parent entity and model. An example of an object that has an entity context is an explicit hierarchy.

This complex type is an extension of the ModelContextIdentifier base type.

The following is the XML schema definition of the **EntityContextIdentifier** complex type.

```
<xs:complexType name="EntityContextIdentifier">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ModelContextIdentifier">
      <xs:sequence>
        <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**EntityId**: Specifies the Identifier of the parent entity of the object.

### 2.2.4.80 EntityMembers

The **EntityMembers** complex type contains a collection of the members from a single entity and member type, along with their context information.

The following is the XML schema definition of the **EntityMembers** complex type.

```
<xs:complexType name="EntityMembers">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="MemberType" nillable="true" type="tns:MemberType" />
    <xs:element minOccurs="0" name="Members" nillable="true" type="tns:ArrayOfMember" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
  </xs:sequence>
</xs:complexType>
```

**EntityId**: Specifies the Identifier of the entity for the contained members.

**MemberType**: Specifies the MemberType simple type.

**Members**: Specifies an ArrayOfMember that contains a list of members for the identified entity and member type.

**ModelId**: Specifies the **Identifier** of the model for the contained members.

**VersionId**: Specifies the **Identifier** of the version for the contained members.



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### 2.2.4.81 EntityMemberType

The **EntityMemberType** complex type specifies the structure of an entity within MDS, including attributes and attribute groups. **EntityMemberType** extends the MdmDataContractOfIdentifier complex type.

The following is the XML schema definition for the **EntityMemberType** complex type.

```
<xs:complexType name="EntityMemberType">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MdmDataContractOfIdentifier">
      <xs:sequence>
        <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="tns:ArrayOfAttributeGroup" />
        <xs:element minOccurs="0" name="Attributes" nillable="true"
type="tns:ArrayOfMetaDataAttribute" />
        <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
        <xs:element minOccurs="0" name="Type" type="tns:MemberType" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**AttributeGroups**: Specifies the ArrayOfAttributeGroup complex type.

**Attributes**: Specifies the ArrayOfMetaDataAttribute complex type.

**EntityId**: Specifies the Identifier complex type.

**Type**: Specifies the MemberType simple type.

### 2.2.4.82 Error

The **Error** complex type specifies an information container for an error that occurred during the processing of a request.

The following is the XML schema definition of the **Error** complex type.

```
<xs:complexType name="Error">
  <xs:sequence>
    <xs:element minOccurs="0" name="Code" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Context" nillable="true" type="tns:ErrorContext" />
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Code**: Specifies the error code.

**Context**: Specifies the context of the error as an **ErrorContext** complex type.

**Description**: Specifies the localized description of the error.

### 2.2.4.83 ErrorContext

The **ErrorContext** complex type specifies the context of a particular error. This type identifies the object that was operated on when the error occurred.



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The following is the XML schema definition of the **ErrorContext** complex type.

```
<xs:complexType name="ErrorContext">
  <xs:sequence>
    <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="Type" type="tns:ObjectType" />
  </xs:sequence>
</xs:complexType>
```

**FullyQualifiedName**: Specifies the fully qualified name of an object (for example, sufficient context to uniquely identify the object).

**Identifier**: Specifies the Identifier of the object that is involved in the error.

**Type**: Specifies the ObjectType of the object that is involved in the error.

### 2.2.4.84 ExplicitHierarchy

The **ExplicitHierarchy** complex type specifies a parent–child representation that requires that all **leaf members** be expressed exactly one time.

The following is the XML schema definition of the **ExplicitHierarchy** complex type.

```
<xs:complexType name="ExplicitHierarchy">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfEntityContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="IsMandatory" type="xs:boolean" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**FullyQualifiedName**: Specifies the fully qualified name for the hierarchy.

**IsMandatory**: Specifies a **Boolean** flag that indicates whether all leaf members are required in the hierarchy. Non-mandatory entities create a special parent member called "unused" that initially holds all leaf members.

### 2.2.4.85 ExportView

The **ExportView** complex type specifies information that is related to a user-created view within the MDS system. These views are created to provide simplified SQL access to the data that is stored in the MDS system in a number of common formats.

The following is the XML schema definition of the **ExportView** complex type.

```
  <xs:complexType name="ExportView">
    <xs:sequence>
      <xs:element minOccurs="0" name="DerivedHierarchyId" nillable="true"
type="tns:Identifier" />
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
```



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```
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="IsDirty" type="xs:boolean" />
    <xs:element minOccurs="0" name="Levels" type="xs:int" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="VersionFlagId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="ViewFormat" type="tns:ExportViewFormat" />
  </xs:sequence>
</xs:complexType>
```

**DerivedHierarchyId**: Specifies the Identifier of the derived hierarchy that is queried by the export view. This value is populated only for view formats that are specific to derived hierarchies.

**EntityId**: Specifies the **Identifier** of the entity that is queried by the export view.

**Identifier**: Specifies the **Identifier** of the export view.

**IsDirty**: Specifies a **Boolean** that is set to true if the view needs to be re-created due to underlying metadata changes.

**Levels**: Specifies the number of hierarchy levels in the view if the view is a level-based hierarchy view.

**ModelId**: Specifies the **Identifier** of the model that is queried by the export view.

**VersionFlagId**: Specifies the **Identifier** of the version flag that is queried by the export view.

**VersionId**: Specifies the **Identifier** of the version that is queried by the export view.

**ViewFormat**: Specifies the ExportViewFormat simple type of the export view.

### 2.2.4.86 FileAttribute

The **FileAttribute** complex type is used to store binary files inside the MDS system.

The following is the XML schema definition of the **FileAttribute** complex type.

```
<xs:complexType name="FileAttribute">
  <xs:sequence>
    <xs:element minOccurs="0" name="Content" nillable="true" type="xs:base64Binary" />
    <xs:element minOccurs="0" name="ContentType" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Content**: Specifies the byte array that contains the actual file.

**ContentType**: Specifies the string that describes the file type.

**Name**: Specifies the file name.

### 2.2.4.87 FunctionPrivilege

The **FunctionPrivilege** complex type specifies a function privilege security assignment for a user or group.



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The following is the XML schema definition of the **FunctionPrivilege** complex type.

```
  <xs:complexType name="FunctionPrivilege">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Function" type="q21:FunctionalArea" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="IsAuthorized" type="xs:boolean" />
      <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q22:PrincipalType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Function**: Specifies the FunctionalArea that is assigned to the security principal.

**Identifier**: Specifies the Identifier of the function privilege assignment.

**IsAuthorized**: Specifies a **Boolean** that is set to true if the function is assigned to the principal. Function privileges are either on or off (authorized or not authorized).

**PrincipalId**: Specifies the **Identifier** of the principal in the function privilege assignment.

**PrincipalType**: Specifies the PrincipalType of the principal in the function privilege assignment.

### 2.2.4.88 Group

The **Group** complex type specifies a security group that is associated with MDS.

The following is the XML schema definition of the **Group** complex type.

```
  <xs:complexType name="Group">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element
xmlns:q20="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="GroupType" type="q20:GroupType" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="SID" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="SecurityPrivilege" nillable="true"
type="tns:SecurityPrivileges" />
      <xs:element minOccurs="0" name="UserAssignments" nillable="true"
type="tns:ArrayOfIdentifier" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies AuditInfo complex types.

**Description**: Specifies a description of the security group that is sourced from an Active Directory directory or a local security account manager (SAM).



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**GroupType**: Specifies the GroupType of the security group (Active Directory group or local group).

**Identifier**: Specifies the Identifier of the security group.

**SID**: Specifies the security identifier (SID) of the group from Windows.

**SecurityPrivilege**: Specifies a SecurityPrivileges complex type that contains the set of MDS privileges that are assigned to the group.

**UserAssignments**: Specifies an ArrayOfIdentifier complex type that contains the set of user identifiers that are assigned to the security group.

### 2.2.4.89 HierarchyMemberPrivilege

The **HierarchyMemberPrivilege** complex type specifies a hierarchy member privilege security assignment for a user or group.

The following is the XML schema definition of the **HierarchyMemberPrivilege** complex type.

```
  <xs:complexType name="HierarchyMemberPrivilege">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="HierarchyType" type="q23:HierarchyType" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="IsModelAdministrator" type="xs:boolean" />
      <xs:element minOccurs="0" name="MemberId" nillable="true" type="tns:MemberIdentifier"
/>
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q24:Permission" />
      <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q25="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q25:PrincipalType" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**EntityId**: Specifies the Identifier of the entity that is associated with the security privilege of the hierarchy member.

**HierarchyId**: Specifies the **Identifier** of the hierarchy that is associated with the security privilege of the hierarchy member.

**HierarchyType**: Specifies the HierarchyType (explicit or derived) of the hierarchy that is associated with the security privilege of the hierarchy member.

**Identifier**: Specifies the **Identifier** of the privilege assignment of the hierarchy member.

**IsModelAdministrator**: Specifies a **Boolean** that is set to true if the user's effective permission for the model is model administrator.



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**MemberId**: Specifies the **Identifier** of the master data member that is associated with the security privilege of the hierarchy member.

**ModelId**: Specifies the **Identifier** of the model that is associated with the security privilege of the hierarchy member.

**Permission**: Specifies the Permission that is assigned for the member and security principal.

**PrincipalId**: Specifies the principal ID.

**PrincipalType**: Specifies the principal type.

**VersionId**: Specifies the **Identifier** of the version that is being updated.

### 2.2.4.90 Identifier

The **Identifier** complex type specifies a set of IDs for a master data model object, including a globally unique identifier (GUID) and unique name within context.

The following is the XML schema definition of the **Identifier** complex type.

```
<xs:complexType name="Identifier">
  <xs:sequence>
    <xs:element minOccurs="0" name="Id" type="ser:guid" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="InternalId" type="xs:int" />
  </xs:sequence>
</xs:complexType>
```

**Id**: Specifies a GUID that uniquely identifies the object across all instances and contexts.

**Name**: Specifies a descriptive name that uniquely identifies the object within its context only.

**InternalId**: Specifies an integer ID that uniquely identifies an object within an MDS instance. This value MUST NOT be used. **Id** SHOULD be used instead of **InternalId**.

### 2.2.4.91 MdmDataContractOfDerivedHierarchyContextIdentifier

The **MdmDataContractOfDerivedHierarchyContextIdentifier** complex type is the specific context that identifies a derived hierarchy in the MDS system.

The following is the XML schema definition of the **MdmDataContractOfDerivedHierarchyContextIdentifier** complex type.

```
  <xs:complexType name="MdmDataContractOfDerivedHierarchyContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="DerivedHierarchyContextIdentifier"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
```



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```
      <xs:element minOccurs="0" name="Identifier" nillable="true"
type="tns:DerivedHierarchyContextIdentifier" />
      <xs:element
xmlns:q42="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q42:PermissionType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Identifier**: Specifies the DerivedHierarchyContextIdentifier complex type.

**Permission**: Specifies the PermissionType simple type.

### 2.2.4.92 MdmDataContractOfEntityContextIdentifier

The **MdmDataContractOfEntityContextIdentifier** specifies a data contract for the EntityContextIdentifier complex type.

The following is the XML schema definition of the **MdmDataContractOfEntityContextIdentifier** complex type.

```
  <xs:complexType name="MdmDataContractOfEntityContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="EntityContextIdentifier"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Identifier" nillable="true"
type="tns:EntityContextIdentifier" />
      <xs:element
xmlns:q43="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q43:PermissionType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Identifier**: Specifies the **EntityContextIdentifier** complex type.

**Permission**: Specifies the PermissionType simple type.

### 2.2.4.93 MdmDataContractOfIdentifier

The **MdmDataContractOfIdentifier** complex type specifies the data contract for identifiers, including helper types such as AuditInfo and Permission.

The following is the XML schema definition for the **MdmDataContractOfIdentifier** complex type.



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```
  <xs:complexType name="MdmDataContractOfIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="Identifier"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q44:PermissionType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the **AuditInfo** complex type.

**Identifier**: Specifies the Identifier complex type.

**Permission**: Specifies the PermissionType simple type.

### 2.2.4.94 MdmDataContractOfMemberTypeContextIdentifier

The **MdmDataContractOfMemberTypeContextIdentifier** complex type specifies a data contract for the MemberTypeContextIdentifier complex type.

The following is the XML schema definition of the **MdmDataContractOfMemberTypeContextIdentifier** complex type.

```
  <xs:complexType name="MdmDataContractOfMemberTypeContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="MemberTypeContextIdentifier"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Identifier" nillable="true"
type="tns:MemberTypeContextIdentifier" />
      <xs:element
xmlns:q38="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q38:PermissionType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.



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**Identifier**: Specifies the **MemberTypeContextIdentifier** complex type.

**Permission**: Specifies the PermissionType simple type.

### 2.2.4.95 MdmDataContractOfModelContextIdentifier

The **MdmDataContractOfModelContextIdentifier** complex type specifies the context identifier for a specific model in the MDS system.

The following is the XML schema definition of the **MdmDataContractOfModelContextIdentifier** complex type.

```
  <xs:complexType name="MdmDataContractOfModelContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="ModelContextIdentifier"
Namespace="http://schemas.microsoft.com/office/mdm/2007/11" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Identifier" nillable="true"
type="tns:ModelContextIdentifier" />
      <xs:element
xmlns:q40="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q40:PermissionType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Identifier**: Specifies the ModelContextIdentifier complex type.

**Permission**: Specifies the PermissionType simple type.

### 2.2.4.96 Member

The **Member** complex type specifies a master data member or row of data.

The following is the XML schema definition of the **Member** complex type.

```
  <xs:complexType name="Member">
    <xs:sequence>
      <xs:element minOccurs="0" name="Attributes" nillable="true" type="tns:ArrayOfAttribute"
/>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Collections" nillable="true"
type="tns:ArrayOfCollection" />
      <xs:element minOccurs="0" name="MemberId" nillable="true" type="tns:MemberIdentifier"
/>
      <xs:element minOccurs="0" name="Parents" nillable="true" type="tns:ArrayOfParent" />
      <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="SecurityPermission" nillable="true" type="q5:SecurityPermission" />
```



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```
      <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="ValidationStatus" type="q6:ValidationStatus" />
    </xs:sequence>
  </xs:complexType>
```

**Attributes**: Specifies the ArrayOfAttribute complex type.

**AuditInfo**: Specifies the AuditInfo complex type. This property is always read-only.

**Collections**: Specifies an ArrayOfCollection that includes collection type parent members.

**MemberID**: Specifies the MemberIdentifier of the member.

**Parents**: Specifies an ArrayOfParent that includes parents of the member from explicit hierarchies.

**SecurityPermission**: Specifies the authorization of the user for the member. This property is always read-only.

**ValidationStatus**: Specifies the ValidationStatus simple type. This property is always read-only.

### 2.2.4.97 MemberAttributeIdentifier

The **MemberAttributeIdentifier** complex type specifies the attribute that identifies errors in **EntityMember** operations. The **MemberAttributeIdentifier** is a known identifier type.

This complex type is an extension of the base type **MemberTypeContextIdentifier**.

The following is the XML schema definition of the **MemberAttributeIdentifier** complex type.

```
  <xs:complexType name="MemberAttributeIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q13="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q13:MemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q13:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**MemberId**: Specifies the attribute that caused the current issue in a MDS member that is passed in the request.



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### 2.2.4.98 MemberIdentifier

The **MemberIdentifier** complex type specifies a set of IDs for a master data member, including the code and name of the member and the member type.

This complex type is an extension of the base type Identifier. In this case, the inherited ID property MUST NOT be used.

The following is the XML schema definition of the **MemberIdentifier** complex type.

```
<xs:complexType name="MemberIdentifier">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:Identifier">
      <xs:sequence>
        <xs:element name="Code" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="MemberType" type="tns:MemberType" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**Code**: Specifies the user key of the master data member that is unique within the context of the entity.

**MemberType**: Specifies the MemberType simple type.

### 2.2.4.99 MemberTypeContextIdentifier

The **MemberTypeContextIdentifier** complex type specifies a set of IDs for a master data model object that exists in the context of an entity and member type. This type includes identifiers for the context of the object, including parent entity, member type, and model. Examples of objects that have an entity and member type context are attributes, attribute groups, and business rules.

This complex type is an extension of the base type EntityContextIdentifier.

The following is the XML schema definition of the **MemberTypeContextIdentifier** complex type.

```
<xs:complexType name="MemberTypeContextIdentifier">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:EntityContextIdentifier">
      <xs:sequence>
        <xs:element minOccurs="0" name="MemberType" type="tns:MemberType" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**MemberType**: Specifies the MemberType simple type.

### 2.2.4.100 Metadata

The **Metadata** complex type specifies a superset of all container objects within the MDS system.

The following is the XML schema definition of the **Metadata** complex type.



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```
  <xs:complexType name="Metadata">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="tns:ArrayOfAttributeGroup" />
      <xs:element minOccurs="0" name="Attributes" nillable="true"
type="tns:ArrayOfMetaDataAttribute" />
      <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="tns:ArrayOfDerivedHierarchy" />
      <xs:element minOccurs="0" name="DerivedHierarchyLevels" nillable="true"
type="tns:ArrayOfDerivedHierarchyLevel" />
      <xs:element minOccurs="0" name="Entities" nillable="true" type="tns:ArrayOfEntity" />
      <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="tns:ArrayOfExplicitHierarchy" />
      <xs:element minOccurs="0" name="Models" nillable="true" type="tns:ArrayOfModel" />
      <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="tns:ArrayOfVersionFlag" />
      <xs:element minOccurs="0" name="Versions" nillable="true" type="tns:ArrayOfVersion" />
    </xs:sequence>
  </xs:complexType>
```

**AttributeGroups**: Specifies the ArrayOfAttributeGroup complex type.

**Attributes**: Specifies the ArrayOfMetaDataAttribute complex type.

**DerivedHierarchies**: Specifies the ArrayOfDerivedHierarchy complex type.

**DerivedHierarchyLevels**: Specifies the ArrayOfDerivedHierarchyLevel complex type.

**Entities**: Specifies the ArrayOfEntity complex type.

**ExplicitHierarchies**: Specifies the ArrayOfExplicitHierarchy complex type.

**Models**: Specifies the ArrayOfModel complex type.

**VersionFlags**: Specifies the ArrayOfVersionFlag complex type.

**Versions**: Specifies the ArrayOfVersion complex type.

### 2.2.4.101 MetadataAttribute

The **MetadataAttribute** complex type specifies an attribute for an entity within the MDS system.

The following is the XML schema definition of the **MetadataAttribute** complex type.

```
  <xs:complexType name="MetadataAttribute">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q201="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q201:MdmDataContractOfMemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeType" nillable="true"
type="q201:AttributeType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
```



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```
          </xs:element>
          <xs:element minOccurs="0" name="ChangeTrackingGroup" type="xs:int" />
          <xs:element minOccurs="0" name="DataType" type="q201:AttributeDataType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DataTypeInformation" nillable="true" type="xs:int"
/>
          <xs:element minOccurs="0" name="DisplayWidth" type="xs:int" />
          <xs:element minOccurs="0" name="DomainEntityId" nillable="true"
type="q201:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DomainEntityIsFlat" type="xs:boolean" />
          <xs:element minOccurs="0" name="DomainEntityPermission" type="q201:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="InputMaskId" nillable="true"
type="q201:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsCode" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsName" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsReadOnly" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**AttributeType**: Specifies the AttributeType simple type.

**ChangeTrackingGroup**: Specifies the change tracking group id for the attribute.

**DataType**: Specifies the data type of the attribute.



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**DataTypeInformation**: Specifies additional information that is based on the data type of the attribute.

**DisplayWidth**: Specifies the display width in picas for the attribute in the web UI.

**DomainEntityId**: Specifies the id for the entity that is associated with the attribute.

**DomainEntityIsFlat**: Specifies the **Boolean** hierarchy support for the entity that the attribute is associated with.

**DomainEntityPermission**: Specifies the permissions associated with the attribute.

**FullyQualifiedName**: Specifies the full name of the attribute.

**InputMaskId**: Specifies the mask id for a number or datetime attribute.

**IsCode**: Specifies the **Boolean** for the specific code attribute of the entity.

**IsName**: Specifies the **Boolean** for the specific name attribute of the entity.

**IsReadOnly**: Specifies the **Boolean** for attribute read-only status.

**IsSystem**: Specifies the **Boolean** for attributes managed by the MDS application.

**SortOrder**: Specifies the order of the attribute in the collection. This can be per attribute group depending on the request.

### 2.2.4.102 Model

The **Model** complex type specifies the highest level of data organization. **Model** contains all the members, entities, attributes, hierarchy relationships, collections, business rules, and versions that describe an aspect of the business. **Model** extends the MdmDataContractOfIdentifier complex type.

The following is the XML schema definition of the **Model** complex type.

```
  <xs:complexType name="Model">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="tns:ArrayOfDerivedHierarchy" />
          <xs:element minOccurs="0" name="Entities" nillable="true" type="tns:ArrayOfEntity"
/>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="tns:ArrayOfExplicitHierarchy" />
          <xs:element minOccurs="0" name="IsAdministrator" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="tns:ArrayOfVersionFlag" />
          <xs:element minOccurs="0" name="Versions" nillable="true" type="tns:ArrayOfVersion"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**DerivedHierarchies**: Specifies the ArrayOfDerivedHierarchy complex type.



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**Entities**: Specifies the ArrayOfEntity complex type.

**ExplicitHierarchies**: Specifies the ArrayOfExplicitHierarchy complex type.

**IsAdministrator**: Specifies whether the calling user is an administrator of the model.

**IsSystem**: Specifies a **Boolean** to determine whether this model is a system-generated model.

**VersionFlags**: Specifies the ArrayOfVersionFlag complex type.

**Versions**: Specifies the ArrayOfVersion complex type.

### 2.2.4.103 ModelContextIdentifier

The **ModelContextIdentifier** complex type specifies a set of IDs for a master data model object that exists in the context of a model. This type includes identifiers for the context of the object (the parent model). Examples of objects that have a model context are entities, versions, version flags, and derived hierarchies.

This complex type is an extension of the base type Identifier.

The following is the XML schema definition of the **ModelContextIdentifier** complex type.

```
<xs:complexType name="ModelContextIdentifier">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:Identifier">
      <xs:sequence>
        <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**ModelId**: Specifies the **Identifier** of the parent entity of the object.

### 2.2.4.104 ModelPrivilege

The **ModelPrivilege** complex type specifies a model/object level privilege within the MDS system.

The following is the XML schema definition of the **ModelPrivilege** complex type.

```
<xs:complexType name="ModelPrivilege">
  <xs:sequence>
    <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="IsModelAdministrator" type="xs:boolean" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="ObjectId" nillable="true" type="tns:Identifier" />
    <xs:element
xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="ObjectType" type="q26:ModelObjectType" />
    <xs:element
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q27:Permission" />
    <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
```



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```
      <xs:element
xmlns:q28="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q28:PrincipalType" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Identifier**: Specifies the Identifier complex type.

**IsModelAdministrator**: Specifies a **Boolean** value that indicates model administrator status.

**ModelId**: Specifies the model to be the privileged **Identifier** complex type.

**ObjectId**: Specifies the **Identifier** complex type.

**ObjectType**: Specifies the ModelObjectType simple type.

**Permission**: Specifies the Permission simple type.

**PrincipalId**: Specifies the **Identifier** complex type.

**PrincipalType**: Specifies the PrincipalType simple type.

### 2.2.4.105 OperationResult

The **OperationResult** complex type specifies a standard container for all operation responses that includes a list of errors.

The following is the XML schema definition of the **OperationResult** complex type.

```
<xs:complexType name="OperationResult">
  <xs:sequence>
    <xs:element minOccurs="0" name="Errors" nillable="true" type="tns:ArrayOfError" />
    <xs:element minOccurs="0" name="RequestId" type="ser:guid" />
  </xs:sequence>
</xs:complexType>
```

**Errors**: Specifies an ArrayOfError complex type that contains any and all errors that occurred during the operation request.

**RequestId**: This value MUST NOT be used.

### 2.2.4.106 Parent

The **Parent** complex type specifies a member that is a parent or a prior sibling of another master data member within an explicit hierarchy.

The following is the XML schema definition of the **Parent** complex type.

```
<xs:complexType name="Parent">
  <xs:sequence>
    <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="ParentId" nillable="true" type="tns:MemberIdentifier"
/>
```



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```
      <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="RelationshipType" nillable="true" type="q7:RelationshipType" />
    </xs:sequence>
  </xs:complexType>
```

**HierarchyId**: Specifies the Identifier of the parent member's explicit hierarchy.

**ParentId**: Specifies the MemberIdentifier of the parent member in a hierarchy.

**RelationshipType**: Specifies the RelationshipType of the member that is represented by **Parent**. The relationship can be a sibling relationship and a parent relationship when **Parent** is used in a Create operation or an Update operation.

### 2.2.4.107 ParentChild

The **ParentChild** complex type specifies a parent-child relationship record from a hierarchy.

The following is the XML schema definition of the **ParentChild** complex type.

```
  <xs:complexType name="ParentChild">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q406="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q406:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q406:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Child" nillable="true"
type="q406:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ChildEntityId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
```



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```
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ChildPermission" type="q406:SecurityPermission" />
          <xs:element minOccurs="0" name="NextRelationshipId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="NextRelationshipType" type="q406:HierarchyItemType"
/>
          <xs:element minOccurs="0" name="Parent" nillable="true"
type="q406:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentEntityId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentPermission" type="q406:SecurityPermission" />
          <xs:element minOccurs="0" name="RelationshipId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="RelationshipType" type="q406:HierarchyItemType" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**AttributeId**: Specifies the ID of the attribute in a derived hierarchy.

**AuditInfo**: Specifies the AuditInfo complex type.

**Child**: Specifies the MemberIdentifier of the child member in the relationship.

**ChildEntityId**: Specifies the Identifier of the child member's entity.

**ChildPermission**: Specifies the SecurityPermission of the user for the child member.



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**NextRelationshipId**: Specifies the ID of the next member in the hierarchy.

**NextRelationshipType**: Specifies the **Hierarchy Item Type** of the next member in the hierarchy.

**Parent**: Specifies the **MemberIdentifier** of the parent member in the relationship.

**ParentEntityId**: Specifies the **Identifier** of the parent member's entity.

**ParentPermission**: Specifies the SecurityPermission of the user for the parent member.

**RelationshipId**: Specifies the **Identifier** of the object (attribute or hierarchy) that associates one node with another.

**RelationshipType**: Specifies the **Hierarchy Item Type** of the current member in the hierarchy.

**SortOrder**: Specifies an integer that represents the order of the child member among its siblings, relative to the parent.

### 2.2.4.108 SecurityPrincipals

The **SecurityPrincipals** complex type specifies a set of users and user groups.

The following is the XML schema definition of the **SecurityPrincipals** complex type.

```
<xs:complexType name="SecurityPrincipals">
  <xs:sequence>
    <xs:element minOccurs="0" name="Groups" nillable="true" type="tns:ArrayOfGroup" />
    <xs:element minOccurs="0" name="Users" nillable="true" type="tns:ArrayOfUser" />
  </xs:sequence>
</xs:complexType>
```

**Groups**: Specifies an ArrayOfGroup complex type that contains security groups.

**Users**: Specifies an ArrayOfUser complex type that contains security users.

### 2.2.4.109 SecurityPrivileges

The **SecurityPrivileges** complex type specifies a set of security privilege assignments at the function, model object, and member levels.

The following is the XML schema definition of the **SecurityPrivileges** complex type.

```
  <xs:complexType name="SecurityPrivileges">
    <xs:sequence>
      <xs:element minOccurs="0" name="FunctionPrivileges" nillable="true"
type="tns:ArrayOfFunctionPrivilege" />
      <xs:element minOccurs="0" name="HierarchyMemberPrivileges" nillable="true"
type="tns:ArrayOfHierarchyMemberPrivilege" />
      <xs:element minOccurs="0" name="ModelPrivileges" nillable="true"
type="tns:ArrayOfModelPrivilege" />
    </xs:sequence>
  </xs:complexType>
```

**FunctionPrivileges**: Specifies an ArrayOfFunctionPrivilege complex type.

**HierarchyMemberPrivileges**: Specifies an ArrayOfHierarchyMemberPrivilege complex type.



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**ModelPrivileges**: Specifies an ArrayOfModelPrivilege complex type.

### 2.2.4.110 StagingBatch

The **StagingBatch** complex type specifies a container for a staging batch, including the batch identification, errors, statistics, and members.

The following is the XML schema definition of the **StagingBatch** complex type.

```
  <xs:complexType name="StagingBatch">
    <xs:sequence>
      <xs:element minOccurs="0" name="BatchId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Errors" nillable="true"
type="tns:ArrayOfStagingBatchError" />
      <xs:element minOccurs="0" name="Information" nillable="true"
type="tns:StagingBatchInformation" />
      <xs:element minOccurs="0" name="Members" nillable="true"
type="tns:ArrayOfEntityMembers" />
    </xs:sequence>
  </xs:complexType>
```

**BatchId**: Specifies an Identifier that uniquely identifies the batch.

**Errors**: Specifies the ArrayOfStagingBatchError complex type.

**Information**: Specifies the StagingBatchInformation complex type.

**Members**: Specifies the ArrayOfEntityMembers complex type.

### 2.2.4.111 StagingBatchError

The **StagingBatchError** complex type<1> specifies a process error that is associated with a member in a staging batch.

The following is the XML schema definition of the **StagingBatchError** complex type.

```
  <xs:complexType name="StagingBatchError">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q480="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q480:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
```



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```
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q480:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="TargetCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="TargetType" nillable="true"
type="q480:RelationshipType" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**AttributeId**: Specifies the Identifier of the attribute that is being updated. This property is applicable only for attribute value updates.

**EntityId**: Specifies the **Identifier** of the entity that is being updated.

**ErrorCode**: Specifies the **Identifier** of the batch error.

**HierarchyId**: Specifies the **Identifier** of the hierarchy that is being updated. This property is applicable only for hierarchy parent or sibling updates.

**MemberId**: Specifies the MemberIdentifier of the attribute that is being updated.

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

**TargetCode**: Specifies the target code of the batch member.

**TargetType**: Specifies the target type of the batch member.

**VersionId**: Specifies the **Identifier** of the version that is being updated.



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### 2.2.4.112 StagingBatchInformation

The **StagingBatchInformation** complex type specifies a read-only container for statistical information about a staging batch, including row counts, data source, and prior batch.

The following is the XML schema definition of the **StagingBatchInformation** complex type.

```
  <xs:complexType name="StagingBatchInformation">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q482="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q482:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BatchId" nillable="true" type="q482:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="LastRunEndDate" type="xs:dateTime" />
          <xs:element minOccurs="0" name="LastRunStartDate" type="xs:dateTime" />
          <xs:element minOccurs="0" name="MemberAttributeErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberAttributeTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberRelationshipErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberRelationshipTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="ModelName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="PriorBatchId" nillable="true"
type="q482:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SourceId" nillable="true" type="q482:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Status" type="q482:StagingBatchStatus" />
          <xs:element minOccurs="0" name="VersionId" type="xs:int" />
          <xs:element minOccurs="0" name="VersionName" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**BatchId**: Specifies the Identifier of the staging batch.

**LastRunEndDate**: Specifies the last date the staging batch was run.



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**LastRunStartDate**: Specifies the last date the staging batch was started.

**MemberAttributeErrorCount**: Specifies the number of attribute updates that resulted in errors.

**MemberAttributeTotalCount**: Specifies the number of attribute updates that were attempted.

**MemberErrorCount**: Specifies the number of member Create operations that resulted in errors.

**MemberRelationshipErrorCount**: Specifies the number of hierarchy moves that resulted in errors.

**MemberRelationshipTotalCount**: Specifies the number of hierarchy moves that were attempted.

**MemberTotalCount**: Specifies the number of member Create operations that were attempted.

**ModelName**: Specifies the name of the model for the staging batch.

**PriorBatchId**: Specifies the **Identifier** of a prior attempted batch if the current batch is a reload of the prior batch's corrected error records.

**SourceId**: Specifies an optional **Identifier** to associate the batch with a source system.

**Status**: Specifies the **StagingBatchStatus**; describes the status of a staging batch.

**VersionId**: Specifies the **Identifier** of the version that is being updated.

**VersionName**: Specifies the name of the version for the staging batch.

### 2.2.4.113 StagingUnbatchedInformation

The **StagingUnbatchedInformation** complex type<2> specifies a read-only container for counts of unbatched staging records for a model.

The following is the XML schema definition of the **StagingUnbatchedInformation** complex type.

```
<xs:complexType name="StagingUnbatchedInformation">
  <xs:sequence>
    <xs:element minOccurs="0" name="MemberAttributeCount" type="xs:int" />
    <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
    <xs:element minOccurs="0" name="MemberRelationshipCount" type="xs:int" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
  </xs:sequence>
</xs:complexType>
```

**MemberAttributeCount**: Specifies the number of unbatched staging records for attribute updates.

**MemberCount**: Specifies the number of unbatched staging records for member creations.

**MemberRelationshipCount**: Specifies the number of unbatched staging records for hierarchy moves.

**ModelId**: Specifies the Identifier of the target model for the unbatched staging records.

### 2.2.4.114 SystemDomainList

The **SystemDomainList** complex type specifies a list of standard text choices that are associated with the Master Data Services (MDS) application.



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The following is the XML schema definition of the **SystemDomainList** complex type.

```
  <xs:complexType name="SystemDomainList">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q279="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q279:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Code" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Items" nillable="true"
type="q279:ArrayOfSystemDomainListItem" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**Code**: Specifies the code of the system domain list.

**Items**: Specifies an ArrayOfSystemDomainListItem complex type that contains the list of the items (see section 2.2.4.115) that are associated with the system domain list.

**Name**: Specifies the name of the system domain list.

### 2.2.4.115 SystemDomainListItem

The **SystemDomainListItem** complex type specifies a business entity that represents an item in a system domain list.

The following is the XML schema definition of the **SystemDomainListItem** complex type.

```
  <xs:complexType name="SystemDomainListItem">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q283="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q283:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ListGroup" type="xs:int" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**ListGroup**: Specifies the list group or category to which the system domain list item belongs.

**Name**: Specifies the name of the system domain list item.

**Value**: Specifies the value of the system domain list item.

### 2.2.4.116 SystemSetting

The **SystemSetting** complex type specifies a single setting within the MDM system. These settings SHOULD be a member of a SystemSettingGroup.



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The following is the XML schema definition of the **SystemSetting** complex type.

```
<xs:complexType name="SystemSetting">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MdmDataContractOfIdentifier">
      <xs:sequence>
        <xs:element minOccurs="0" name="DataType" type="tns:AttributeDataType" />
        <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="DisplaySequence" type="xs:int" />
        <xs:element minOccurs="0" name="IsVisible" type="xs:boolean" />
        <xs:element minOccurs="0" name="MaxValue" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="MinValue" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="SettingType" type="tns:AttributeType" />
        <xs:element minOccurs="0" name="SettingValue" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="SystemDomainList" nillable="true"
type="tns:SystemDomainList" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**DataType**: Specifies the AttributeDataType simple type.

**Description**: Specifies a string that represents the long description of the setting.

**DisplayName**: Specifies a string that represents a short name for the setting that is suitable for presentation to a user.

**DisplaySequence**: Specifies an integer that represents the preferred order of display of the setting.

**IsVisible**: Specifies a **Boolean** flag that determines whether the setting is visible in the MDS configuration screen.

**MaxValue**: Specifies a string that constrains the maximum possible value for the setting.

**MinValue**: Specifies a string that constrains the minimum possible value for the setting.

**SettingType**: Specifies the AttributeType simple type.

**SettingValue**: Specifies the string value of the setting.

**SystemDomainList**: Specifies the SystemDomainList complex type.

### 2.2.4.117 SystemSettingGroup

The **SystemSettingGroup** complex type specifies a group of related system settings that manage system level functionality within MDS.

The following is the XML schema definition of the **SystemSettingGroup** complex type.

```
<xs:complexType name="SystemSettingGroup">
  <xs:sequence>
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DisplaySequence" type="xs:int" />
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
```



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```
      <xs:element minOccurs="0" name="SystemSettings" nillable="true"
type="tns:ArrayOfSystemSetting" />
    </xs:sequence>
  </xs:complexType>
```

**Description**: Specifies a string description for the setting group.

**DisplayName**: Specifies a string display name for the group.

**DisplaySequence**: Specifies the sequence in which the setting groups are most logically displayed.

**Identifier**: Specifies the Identifier complex type.

**SystemSettings**: Specifies the ArrayOfSystemSetting complex type.

### 2.2.4.118 Transaction

The **Transaction** complex type specifies a master data change transaction.

The following is the XML schema definition of the **Transaction** complex type.

```
  <xs:complexType name="Transaction">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Date" type="xs:dateTime" />
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="ExplicitHierarchyId" nillable="true"
type="tns:Identifier" />
      <xs:element minOccurs="0" name="Id" type="xs:int" />
      <xs:element minOccurs="0" name="MemberId" nillable="true" type="tns:MemberIdentifier"
/>
      <xs:element minOccurs="0" name="MemberType" type="tns:MemberType" />
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="NewValue" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="PriorValue" nillable="true" type="xs:string" />
      <xs:element
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="TransactionType" type="q18:TransactionType" />
      <xs:element minOccurs="0" name="UserId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**AttributeId**: Specifies the Identifier of the attribute that is updated in the transaction (if applicable).

**Date**: Specifies the **DateTime** of the transaction.

**EntityId**: Specifies the **Identifier** of the entity that is updated in the transaction.

**ExplicitHierarchyId**: Specifies the **Identifier** of the explicit hierarchy that is updated in the transaction (if applicable).

**Id**: Specifies the integer ID of the transaction.

**MemberId**: Specifies the **Identifier** of the master data member that is updated in the transaction.



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**MemberType**: Specifies the MemberType simple type.

**ModelId**: Specifies the **Identifier** of the model that is updated in the transaction.

**NewValue**: Specifies the new value that is created by the transaction.

**PriorValue**: Specifies the old value that is replaced by the transaction.

**TransactionType**: Specifies the TransactionType of the transaction.

**UserId**: Specifies the **Identifier** of the user who created the transaction.

**VersionId**: Specifies the **Identifier** of the version that is updated in the transaction.

### 2.2.4.119 User

The **User** complex type specifies an Active Directory user who has specific privileges assigned. These privileges were either inherited from an Active Directory group or directly assigned.

The following is the XML schema definition of the **User** complex type.

```
  <xs:complexType name="User">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string" />
      <xs:element
xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="EmailFormat" type="q29:EmailFormat" />
      <xs:element minOccurs="0" name="GroupPrivileges" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="Identifier" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="LastLogOn" type="xs:dateTime" />
      <xs:element minOccurs="0" name="LoggedIn" type="xs:boolean" />
      <xs:element minOccurs="0" name="SID" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="SecurityPrivilege" nillable="true"
type="tns:SecurityPrivileges" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**Description**: Specifies the description of the user.

**DisplayName**: Specifies the display name of the user.

**EmailAddress**: Specifies a valid email address that is associated with the user.

**EmailFormat**: Specifies the EmailFormat simple type.

**GroupPrivileges**: Specifies the ArrayOfIdentifier complex type.

**Identifier**: Specifies the Identifier complex type.

**LoggedIn**: Specifies whether the user is currently logged in.

**LastLogOn**: Specifies the date and time of the last logon.



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**SID**: Specifies the internal security ID.

**SecurityPrivilege**: Specifies the SecurityPrivileges complex type.

### 2.2.4.120 ValidationIssue

The **ValidationIssue** complex type specifies a validation issue that is recorded against a master data member and attribute based on a validation business rule.

The following is the XML schema definition of the **ValidationIssue** complex type.

```
  <xs:complexType name="ValidationIssue">
    <xs:sequence>
      <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="tns:AuditInfo" />
      <xs:element minOccurs="0" name="BusinessRuleId" nillable="true" type="tns:Identifier"
/>
      <xs:element minOccurs="0" name="BusinessRuleItemId" nillable="true"
type="tns:Identifier" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Id" type="xs:int" />
      <xs:element minOccurs="0" name="MemberId" nillable="true" type="tns:MemberIdentifier"
/>
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="NotificationSent" type="xs:boolean" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**AuditInfo**: Specifies the AuditInfo complex type.

**BusinessRuleId**: Specifies the Identifier of the business rule that created the validation issue.

**BusinessRuleItemId**: Specifies the **Identifier** of the action in the business rule that created the validation issue.

**Description**: Specifies the description of the business rule issue.

**EntityId**: Specifies the **Identifier** of the entity that is associated with the validation issue.

**HierarchyId**: Specifies the **Identifier** of the hierarchy that is associated with the validation issue (if applicable).

**Id**: Specifies the **Identifier** of the validation issue.

**MemberId**: Specifies the MemberIdentifier of the master data member that is associated with the validation issue.

**ModelId**: Specifies the **Identifier** of the model that is associated with the validation issue.

**NotificationSent**: Specifies a **Boolean** that is set to true if a notification has been sent for the validation issue.

**VersionId**: Specifies the **Identifier** of the version that is associated with the validation issue.



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### 2.2.4.121 Version

The **Version** complex type specifies a snapshot that contains all model members, attributes, hierarchies, and collections for a model, usually denoting a specific time period. **Version** extends the MdmDataContractOfModelContextIdentifier complex type.

The following is the XML schema definition of the **Version** complex type.

```
  <xs:complexType name="Version">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="CopiedFromVersionId" nillable="true"
type="tns:Identifier" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element
xmlns:q45="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="ValidationStatus" type="q45:VersionValidationStatus" />
          <xs:element minOccurs="0" name="VersionFlagId" nillable="true"
type="tns:Identifier" />
          <xs:element minOccurs="0" name="VersionNumber" type="xs:int" />
          <xs:element
xmlns:q46="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="VersionStatus" type="q46:VersionStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**CopiedFromVersionId**: Specifies the Identifier complex type.

**Description**: Specifies a string description of the version.

**ValidationStatus**: Specifies the cumulative business rule evaluation status of the version.

**VersionFlagId**: Specifies the **Identifier** complex type.

**VersionNumber**: Specifies the integer identifier for the version. This value is set by the system.

**VersionStatus**: Specifies the VersionStatus simple type.

### 2.2.4.122 VersionFlag

The **VersionFlag** complex type specifies tags that provide a standard identifier that can be attached to a version to reduce integration rework. These identifiers can be limited to only committed versions or can be available to all versions based on a **Boolean** setting.

The following is the XML schema definition of the **VersionFlag** complex type.

```
  <xs:complexType name="VersionFlag">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AssignedVersionId" nillable="true"
type="tns:Identifier" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="IsCommittedOnly" type="xs:boolean" />
        </xs:sequence>
```



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

**AssignedVersionId**: Specifies the Identifier complex type.

**Description**: Specifies a string description of the version flag.

**IsCommittedOnly**: Specifies a **Boolean** flag that indicates the type of version that this flag can identify.

### 2.2.5 Simple Types

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

| Simple type | Description |
|---|---|
| AttributeDataType | Specifies the subtype of a free-form attribute. |
| AttributeType | Specifies the type of an attribute. |
| AttributeValueType | Specifies the data type of an attribute. |
| BREntityMemberType | Specifies the type of entity member that is associated with a business rule. |
| BRItemType | Specifies the selected business rule condition or action. |
| BRPropertyName | Specifies the name that identifies a property within a business rule component. |
| BRStatus | Specifies the update and publication status of a business rule. |
| DisplayType | Specifies the chosen display format for domain-based attribute (DBA) columns [Code, Code {Name}, Name {Code}]. |
| EmailFormat | Specifies the preferred email delivery format that is associated with a user. |
| ExportViewFormat | Specifies the type of export view format. Export views are available in a known set of standard formats. |
| FunctionalArea | Specifies the MDS application functional area. Functional areas are used for assigning functional security authorizations. |
| GroupType | Specifies the type (source) of a security group. |
| HierarchyItemType | Specifies the type of component that is used by a level of a derived hierarchy. |
| HierarchyType | Specifies the type of hierarchy construct. |
| LogicalOperator | Specifies the logical operator that is used to join multiple business rule conditions. |
| MemberKeyLookupType | Specifies the type of key that is supplied in a member lookup: the member code or internal integer ID. |
| MemberReturnOption | Specifies which member data is returned when querying master data members: the data, the row counts, or both. |



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| Simple type | Description |
|---|---|
| MemberType | Specifies the type of member record within an entity. |
| ModelObjectType | Specifies the type of master data model object (metadata only). |
| ObjectType | Specifies the type of master data model object. |
| Permission | Specifies the permission that is assigned to a principal for accessing an MDS function, object, or data member. |
| PermissionType | Specifies the effective permission that is assigned to a principal for accessing an MDS object. |
| PrincipalType | Specifies the type of security principal (None, UserAccount, or Group). |
| RelationshipType | Specifies the type of hierarchy relationship between members. |
| ResultType | Specifies the level of detail to return for model object queries. The result type is used in association with a particular object type. |
| SearchOption | Specifies the scope of metadata objects to be searched. The **SearchOption** simple type allows the exclusion or inclusion of user-created objects and system objects. |
| SecurityPermission | Specifies the effective security permission for a user of an MDS object. |
| SecurityResolutionType | Specifies the resolution specification when returning security permissions. Permissions may be retrieved as they were assigned or in a net-effective list of permissions. |
| SortDirection | Specifies the sort direction of a sorted column. |
| StagingBatchStatus | Specifies the processing status of a staging (import) batch. |
| StagingDataStatus | Specifies a status that indicates the success or failure of staging records. |
| SystemPropertyType | Specifies the identifying name of one of the available system properties. |
| TransactionType | Specifies the type of member change that is identified in a transaction. |
| ValidationStatus | Specifies the validation status of a master data member. |
| VersionStatus | Specifies the status of a version. |
| VersionValidationStatus | Specifies the validation status of a version. |

### 2.2.5.1 AttributeDataType

The **AttributeDataType** simple type specifies the subtype of a free-form attribute.

The following is the XML schema definition of the **AttributeDataType** simple type.

```
<xs:simpleType name="AttributeDataType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Text" />
      <xs:enumeration value="Number" />
      <xs:enumeration value="DateTime" />
```



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```
      <xs:enumeration value="Link">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The type of attribute is unspecified. |
| Text | The type is a free-form text attribute. |
| Number | The type is a number attribute. |
| DateTime | The type is a date and time attribute. |
| Link | The type is a link attribute. |

### 2.2.5.2 AttributeType

The **AttributeType** simple type specifies the type of an attribute.

The following is the XML schema definition of the **AttributeType** simple type.

```
<xs:simpleType name="AttributeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="FreeForm" />
    <xs:enumeration value="Domain" />
    <xs:enumeration value="System" />
    <xs:enumeration value="File" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The type of attribute is unspecified. This value MUST NOT be used. |
| FreeForm | The type is a free-form attribute (text, numeric, or date). |
| Domain | The type is a domain-based attribute (reference to an entity member). |
| System | The type is a standard system attribute. This value MUST NOT be used. |
| File | The type is a file storage attribute. |



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### 2.2.5.3 AttributeValueType

The **AttributeValueType** simple type specifies the data type of an attribute.

The following is the XML schema definition of the **AttributeValueType** simple type.

```
<xs:simpleType name="AttributeValueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="String" />
    <xs:enumeration value="Number" />
    <xs:enumeration value="DateTime" />
    <xs:enumeration value="Domain" />
    <xs:enumeration value="File" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The type of attribute value is unspecified. |
| String | The type is a text string value. |
| Number | The type is a number value. |
| DateTime | The type is a date and time value. |
| Domain | The type is a domain-based value. |
| File | The type is a file (BLOB) value. |

### 2.2.5.4 BREntityMemberType

The **BREntityMemberType** simple type specifies the type of entity member that is associated with a business rule.

The following is the XML schema definition of the **BREntityMemberType** simple type.

```
<xs:simpleType name="BREntityMemberType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="Leaf" />
    <xs:enumeration value="Consolidated" />
    <xs:enumeration value="Collection" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The member type is unspecified. |



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| Value | Meaning |
|---|---|
| Leaf | The members are leaf members. These members do not have children in explicit hierarchies. |
| Consolidated | The members are consolidated members that participate in explicit hierarchies. These members may have children in explicit hierarchies. |
| Collection | The members are collection members. |

### 2.2.5.5 BRItemType

The **BRItemType** simple type specifies the selected business rule condition or action.

The following is the XML schema definition of the **BRItemType** simple type.

```
<xs:simpleType name="BRItemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="IsEqual" />
    <xs:enumeration value="IsNotEqual" />
    <xs:enumeration value="Contains" />
    <xs:enumeration value="StartsWith" />
    <xs:enumeration value="EndsWith" />
    <xs:enumeration value="ContainsSubset" />
    <xs:enumeration value="IsGreaterThan" />
    <xs:enumeration value="IsGreaterThanOrEqual" />
    <xs:enumeration value="IsLessThan" />
    <xs:enumeration value="IsLessThanOrEqual" />
    <xs:enumeration value="IsBetween" />
    <xs:enumeration value="DefaultsToValue" />
    <xs:enumeration value="DefaultsToGeneratedValue" />
    <xs:enumeration value="EqualsValue" />
    <xs:enumeration value="EqualsConcatenatedValue" />
    <xs:enumeration value="MustBeGreaterThan" />
    <xs:enumeration value="MustBeGreaterThanOrEqual" />
    <xs:enumeration value="MustBeLessThan" />
    <xs:enumeration value="MustBeLessThanOrEqual" />
    <xs:enumeration value="MustBeBetween" />
    <xs:enumeration value="MinimumLength" />
    <xs:enumeration value="MaximumLength" />
    <xs:enumeration value="AllowableValues" />
    <xs:enumeration value="Unique" />
    <xs:enumeration value="Mandatory" />
    <xs:enumeration value="Invalid">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">27</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DefaultsToConcatenatedValue">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
        </xs:appinfo>
```



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```
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MustBeEqual">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ContainsPattern">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">30</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MustContainPattern">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">31</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="StartSiteWorkflow">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">32</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasChanged">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">33</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The business rule item type is not specified. |
| IsEqual | Condition: "is equal to" (=). |
| IsNotEqual | Condition: "is not equal to" (<>). |
| Contains | Condition: The attribute contains one of the following values. |
| StartsWith | Condition: The attribute value starts with a value. |



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| Value | Meaning |
| --- | --- |
| EndsWith | Condition: The attribute value ends with a value. |
| ContainsSubset | Condition: The attribute value contains a substring. |
| IsGreaterThan | Condition: "is greater than" (>). |
| IsGreaterThanOrEqual | Condition: "is greater than or equal to" (>=). |
| IsLessThan | Condition: "is less than" (<). |
| IsLessThanOrEqual | Condition: "is less than or equal to" (<=). |
| IsBetween | Condition: The attribute value is between two values. |
| DefaultsToValue | Data Generation Action: Set the attribute to a value when it is blank. |
| DefaultsToGeneratedValue | Data Generation Action: Set the attribute to a generated (incremental) value when it is blank. |
| EqualsValue | Data Generation Action: Set the attribute to a value. |
| EqualsConcatenatedValue | Data Generation Action: Set the attribute to a value that is concatenated from multiple other attributes/values. |
| MustBeGreaterThan | Validation Action: An attribute is invalid if not greater than a value. |
| MustBeGreaterThanOrEqual | Validation Action: An attribute is invalid if not greater than or equal to a value. |
| MustBeLessThan | Validation Action: An attribute is invalid if not less than a value. |
| MustBeLessThanOrEqual | Validation Action: An attribute is invalid if not less than or equal to a value. |
| MustBeBetween | Validation Action: An attribute is invalid if not between two values. |
| MinimumLength | Validation Action: An attribute is invalid if not greater than or equal to a minimum length. |
| MaximumLength | Validation Action: An attribute is invalid if not less than or equal to a maximum length. |
| AllowableValues | Validation Action: An attribute is invalid if not equal to one of the allowed values. |
| Unique | Validation Action: An attribute is invalid if not unique across all entity members. |
| Mandatory | Validation Action: An attribute is invalid if blank. |
| Invalid | Validation Action: An attribute is invalid. |
| DefaultsToConcatenatedValue | Data Generation Action: Set the attribute to a value that is concatenated from multiple other attributes/values if the attribute is blank. |
| MustBeEqual | Validation Action: An attribute is invalid if not equal to a value. |
| ContainsPattern | Condition: The attribute contains a specified pattern. |



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| Value | Meaning |
|---|---|
| MustContainPattern | Validation Action: An attribute is invalid if it does not contain a specified pattern. |
| StartSiteWorkflow | Action: Launch a SharePoint workflow. |
| HasChanged | Condition: This is true when an attribute in the specified change tracking group has been updated. After completion the flag will be returned to not changed. |

### 2.2.5.6 BRPropertyName

The **BRPropertyName** simple type specifies the name that identifies a property within a business rule component.

The following is the XML schema definition of the **BRPropertyName** simple type.

```
<xs:simpleType name="BRPropertyName">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="Value" />
    <xs:enumeration value="StartPosition" />
    <xs:enumeration value="RangeLow" />
    <xs:enumeration value="RangeHigh" />
    <xs:enumeration value="StartingValue" />
    <xs:enumeration value="IncrementValue" />
    <xs:enumeration value="Length" />
    <xs:enumeration value="Substring" />
    <xs:enumeration value="Anchor" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The property is not specified. This value MUST NOT be used. |
| Value | An argument value is specified. |
| StartPosition | The starting position of a substring is specified. |
| RangeLow | The low end of a range is specified. |
| RangeHigh | The high end of a range is specified. |
| StartingValue | The starting value of an incremented value is specified. |
| IncrementValue | The value by which to increment is specified. |
| Length | The length of a string is specified. |
| Substring | A substring value is specified. |
| Anchor | The attribute that is associated with the business rule is specified. |



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### 2.2.5.7 BRStatus

The **BRStatus** simple type specifies the update and publication status of a business rule.

The following is the XML schema definition of the **BRStatus** simple type.

```
<xs:simpleType name="BRStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Undefined" />
    <xs:enumeration value="Active" />
    <xs:enumeration value="Excluded" />
    <xs:enumeration value="PendingActivation" />
    <xs:enumeration value="PendingChanges" />
    <xs:enumeration value="PendingExclusion" />
    <xs:enumeration value="PendingDeletion" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Undefined | The rule is created. This value MUST NOT be used. |
| Active | The rule is published. |
| Excluded | The rule is explicitly excluded from the published set of rules. |
| PendingActivation | The rule has been created and will be published with the next publish request for the related entity and member type. |
| PendingChanges | The rule has been updated, and the new rule will be published with the next **publish** request for the related entity and member type. Until then, the prior version of the rule is active. |
| PendingExclusion | The rule has been marked for exclusion and will be excluded with the next publish request for the related entity and member type. Until then, the prior version of the rule is active. |
| PendingDeletion | The rule has been marked for deletion and will be deleted with the next publish request for the related entity and member type. Until then, the prior version of the rule is active. |

### 2.2.5.8 DisplayType

The **DisplayType** simple type specifies the chosen display format for domain-based attribute (DBA) columns [Code, Code {Name}, Name {Code}].

The following is the XML schema definition of the **DisplayType** simple type.

```
<xs:simpleType name="DisplayType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="Code" />
    <xs:enumeration value="CodeName" />
    <xs:enumeration value="NameCode" />
  </xs:restriction>
```



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

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| 0 | Not Specified: Display type is not provided. |
| 1 | Code: Displays the member code only. |
| 2 | CodeName: Displays the member code followed by the name in parentheses. |
| 3 | NameCode: Displays the member name followed by the code in parentheses. |

### 2.2.5.9 EmailFormat

The **EmailFormat** simple type specifies the preferred email delivery format that is associated with a user.

The following is the XML schema definition of the **EmailFormat** simple type.

```
<xs:simpleType name="EmailFormat">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="HTML" />
    <xs:enumeration value="Text" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The email format is unspecified. |
| HTML | The email format is HTML that may include hyperlink references. |
| Text | The email format is plain text. |

### 2.2.5.10 ExportViewFormat

The **ExportViewFormat** simple type specifies the type of export view format. Export views are available in a known set of standard formats.

The following is the XML schema definition of the **ExportViewFormat** simple type.

```
<xs:simpleType name="ExportViewFormat">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="LeafAttributes" />
    <xs:enumeration value="ConsolidatedAttributes" />
    <xs:enumeration value="CollectionAttributes" />
    <xs:enumeration value="Collections" />
    <xs:enumeration value="ExplicitParentChild" />
```



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```
    <xs:enumeration value="ExplicitLevels" />
    <xs:enumeration value="DerivedParentChild" />
    <xs:enumeration value="DerivedLevels" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The type of export view is unspecified. This value MUST NOT be used. |
| LeafAttributes | This is a view that contains leaf members and their attributes. |
| ConsolidatedAttributes | This is a view that contains consolidated members and their attributes. |
| CollectionAttributes | This is a view that contains collection entity members and their attributes. |
| Collections | This is a view that contains the contents of collections (relationships). |
| ExplicitParentChild | This is a view that contains explicit hierarchy relationships for an entity in parent-child format. |
| ExplicitLevels | This is a view that contains explicit hierarchy relationships for an entity in level-based format. |
| DerivedParentChild | This is a view that contains derived hierarchy relationships for a selected hierarchy in parent-child format. |
| DerivedLevels | This is a view that contains derived hierarchy relationships for a selected hierarchy in level-based format. |

### 2.2.5.11 FunctionalArea

The **FunctionalArea** simple type specifies the MDS application functional area. Functional areas are used for assigning functional security authorizations.

The following is the XML schema definition of the **FunctionalArea** simple type.

```
<xs:simpleType name="FunctionalArea">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Explorer" />
    <xs:enumeration value="Versions" />
    <xs:enumeration value="ImportExport" />
    <xs:enumeration value="Security" />
    <xs:enumeration value="SystemAdministration" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None | The function is not specified. This value MUST NOT be used. |



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| Value | Meaning |
|---|---|
| Explorer | This value specifies the Explorer functional area for viewing and updating master data. |
| Versions | This value specifies the Versions functional area for managing model versions and validation processing. |
| ImportExport | This value specifies the Import and Export functional area for bulk importing and exporting of master data. |
| Security | This value specifies the Security functional area for managing MDS permission assignments. |
| SystemAdministration | This value specifies the System Administration functional area for managing model structure, business rules, and system settings. |

### 2.2.5.12 GroupType

The **GroupType** simple type specifies the type (source) of a security group.

The following is the XML schema definition of the **GroupType** simple type.

```
<xs:simpleType name="GroupType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="InternalGroup" />
    <xs:enumeration value="ActiveDirectoryGroup" />
    <xs:enumeration value="LocalGroup" />
    <xs:enumeration value="OtherGroup">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None | The group type is unspecified. This value MUST NOT be used. |
| InternalGroup | This value MUST NOT be used. |
| ActiveDirectoryGroup | The group is an Active Directory group. |
| LocalGroup | The group is defined on the local machine. |
| OtherGroup | The group is other than a local server group. This value MUST NOT be used. |



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### 2.2.5.13 HierarchyItemType

The **HierarchyItemType** simple type specifies the type of component that is used by a level of a derived hierarchy.

The following is the XML schema definition of the **HierarchyItemType** simple type.

```
<xs:simpleType name="HierarchyItemType">
   <xs:restriction base="xs:string">
     <xs:enumeration value="Entity" />
     <xs:enumeration value="DBA" />
     <xs:enumeration value="Hierarchy" />
     <xs:enumeration value="ConsolidatedDBA" />
     <xs:enumeration value="NotApplicable" />
   </xs:restriction>
 </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Entity | A bottom-level entity. |
| DBA | A domain-based attribute link to another entity. |
| Hierarchy | A link to an explicit hierarchy. |
| ConsolidatedDBA | A domain-based attribute link to another entity from consolidation members. |
| NotApplicable | A **HierarchyItemType** does not apply to a level of a derived hierarchy. |

### 2.2.5.14 HierarchyType

The **HierarchyType** simple type specifies the type of hierarchy construct.

The following is the XML schema definition of the **HierarchyType** simple type.

```
<xs:simpleType name="HierarchyType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Explicit" />
    <xs:enumeration value="Derived" />
    <xs:enumeration value="Collection" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Explicit | Standard parent-child hierarchy for the specified entity or entities. |
| Derived | All attribute-based derived hierarchies for the specified entity or entities. |
| Collection | All collection for the specified entity or entities. |



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| Value | Meaning |
|---|---|
| All | All types of hierarchies for the specified entity or entities. |

### 2.2.5.15 LogicalOperator

The **LogicalOperator** simple type specifies the logical operator that is used to join multiple business rule conditions.

The following is the XML schema definition of the **LogicalOperator** simple type.

```
<xs:simpleType name="LogicalOperator">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="And" />
    <xs:enumeration value="Or" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The operator is not specified. |
| And | The operator is the logical AND operator. |
| Or | The operator is the logical OR operator. |

### 2.2.5.16 MemberKeyLookupType

The **MemberKeyLookupType** simple type specifies the type of key that is supplied in a member lookup: the member code or the internal integer ID.

The following is the XML schema definition of the **MemberKeyLookupType** simple type.

```
<xs:simpleType name="MemberKeyLookupType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="MemberCode" />
      <xs:enumeration value="MemberId" />
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| MemberCode | The code of the member. |
| MemberID | The internal integer ID of the member. |



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### 2.2.5.17 MemberReturnOption

The **MemberReturnOption** simple type specifies which member data is returned when querying master data members: the data, the row counts, or both.

The following is the XML schema definition of the **MemberReturnOption** simple type.

```
<xs:simpleType name="MemberReturnOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Data" />
      <xs:enumeration value="Counts" />
      <xs:enumeration value="DataAndCounts" />
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Data | Only data rows are returned, no row counts. |
| Counts | No data rows are returned, only row counts. |
| DataAndCounts | Both data rows and row counts are returned. |

### 2.2.5.18 MemberType

The **MemberType** simple type specifies the type of member record within an entity.

The following is the XML schema definition of the **MemberType** simple type.

```
<xs:simpleType name="MemberType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="Leaf" />
    <xs:enumeration value="Consolidated" />
    <xs:enumeration value="Collection" />
    <xs:enumeration value="Hierarchy" />
    <xs:enumeration value="CollectionMember" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The member type is unspecified. |
| Leaf | The members are leaf members. These members do not have children in explicit hierarchies. |
| Consolidated | The members are consolidated members that participate in explicit hierarchies. These members may have children in explicit hierarchies. |
| Collection | The members are collection members. |



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| Value | Meaning |
|---|---|
| Hierarchy | The member record is an explicit hierarchy relationship record. |
| CollectionMember | The member record is a collection hierarchy relationship record. |

### 2.2.5.19 ModelObjectType

The **ModelObjectType** simple type specifies the type of master data model object (for metadata only).

The following is the XML schema definition of the **ModelObjectType** simple type.

```
<xs:simpleType name="ModelObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Model" />
      <xs:enumeration value="Entity">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Attribute">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="AttributeGroup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ExplicitHierarchy">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DerivedHierarchy">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="LeafMemberType">
```



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```
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ConsolidatedMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="CollectionMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None=0 | The type of model object is unspecified. This value MUST NOT be used. |
| Model=1 | The model object is a model. |
| Entity=3 | The model object is an entity. |
| Attribute=4 | The model object is an attribute. |
| AttributeGroup=5 | The model object is an attribute group. |
| ExplicitHierarchy=6 | The model object is an explicit hierarchy. |
| DerivedHierarchy=7 | The model object is a derived hierarchy. |
| LeafMemberType=8 | The model object is a leaf type of entity member. |
| ConsolidatedMemberType=9 | The model object is a consolidated type of entity member. |
| CollectionMemberType=10 | The model object is a collection type of entity member. |

### 2.2.5.20 ObjectType

The **ObjectType** simple type specifies the type of master data model object.

The following is the XML schema definition of the **ObjectType** simple type.

```
    <xs:simpleType name="ObjectType">
```



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```
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown" />
      <xs:enumeration value="Model" />
      <xs:enumeration value="DerivedHierarchy" />
      <xs:enumeration value="DerivedHierarchyLevel" />
      <xs:enumeration value="Version" />
      <xs:enumeration value="Entity" />
      <xs:enumeration value="Hierarchy" />
      <xs:enumeration value="Attribute" />
      <xs:enumeration value="AttributeGroup" />
      <xs:enumeration value="StagingBatch" />
      <xs:enumeration value="VersionFlag" />
      <xs:enumeration value="User" />
      <xs:enumeration value="MemberCode" />
      <xs:enumeration value="Annotation" />
      <xs:enumeration value="BusinessRule" />
      <xs:enumeration value="BusinessRuleConditionTreeNode" />
      <xs:enumeration value="BusinessRuleItem" />
      <xs:enumeration value="BusinessRuleArgument" />
      <xs:enumeration value="Transaction" />
      <xs:enumeration value="MemberId" />
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Unknown | Not one of the standard object types. |
| Model | An MDS model. |
| DerivedHierarchy | A derived hierarchy. |
| DerivedHierarchyLevel | A level of a derived hierarchy. |
| Version | A model version. |
| Entity | An entity. |
| Hierarchy | A hierarchy. |
| Attribute | An attribute. |
| AttributeGroup | An attribute group. |
| StagingBatch | A batch of staging records. |
| VersionFlag | A version flag. |
| User | An MDS user. |
| MemberCode | A code (business key) of a member. |
| Annotation | An annotation. |
| BusinessRule | A business rule. |



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| Value | Meaning |
|---|---|
| BusinessRuleConditionTreeNode | A node in the condition tree of a business rule. |
| BusinessRuleItem | A business rule item such as a condition or action. |
| BusinessRuleArgument | An argument within a condition or action of a business rule. |
| Transaction | A transaction record. |
| MemberId | An integer ID key for a member. |

### 2.2.5.21 Permission

The **Permission** simple type specifies the permission that is assigned to a principal for accessing an MDS function, object, or data member.

The following is the XML schema definition of the **Permission** simple type.

```
<xs:simpleType name="Permission">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Deny" />
    <xs:enumeration value="Update" />
    <xs:enumeration value="ReadOnly" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None | No access is specified. (Not a valid response, use the delete request to remove permission.) |
| Deny | Access is denied. |
| Update | Access to read and update is assigned. |
| ReadOnly | Access to read is assigned. |

### 2.2.5.22 PermissionType

The **PermissionType** simple type specifies the effective permission that is assigned to a principal for accessing an MDS object.

The following is the XML schema definition of the **PermissionType** simple type.

```
<xs:simpleType name="PermissionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
```



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```
      </xs:enumeration>
      <xs:enumeration value="DenyAccess">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Update">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ReadOnly">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Delete">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Execute">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Control">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified=99 | The permission is not specified. |



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| Value | Meaning |
|---|---|
| DenyAccess=1 | Access is denied. |
| Update=2 | Permission to read and update is assigned. |
| ReadOnly=3 | Permission to read is assigned. |
| Delete=4 | Permission to delete contents is assigned. |
| Execute=5 | This value is not used. |
| Control=6 | This value is not used. |

### 2.2.5.23 PrincipalType

The **PrincipalType** simple type specifies the type of security principal (user or group).

The following is the XML schema definition of the **PrincipalType** simple type.

```
<xs:simpleType name="PrincipalType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="UserAccount" />
    <xs:enumeration value="Group" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None | The principal type is not specified. This value MUST NOT be used. |
| UserAccount | This is a user account that is assigned to MDS. |
| Group | This is a group account that is assigned to MDS. |

### 2.2.5.24 RelationshipType

The **RelationshipType** simple type specifies the type of hierarchy relationship between members.

The following is the XML schema definition of the **RelationshipType** simple type.

```
<xs:simpleType name="RelationshipType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="All" />
    <xs:enumeration value="Parent" />
    <xs:enumeration value="Sibling" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.



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| Value | Meaning |
|---|---|
| All | All relationship types are returned. |
| Parent | Specifies a parent relationship. |
| Sibling | Specifies a sibling or peer relationship. |

### 2.2.5.25 ResultType

The **ResultType** simple type specifies the level of detail to return for model object queries. The result type is used in association with a particular object type.

The following is the XML schema definition of the **ResultType** simple type.

```
<xs:simpleType name="ResultType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Identifiers" />
    <xs:enumeration value="Details" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| None | No data should be returned for the specified type of object. |
| Identifiers | Only identifier information and attributes of each object should be returned for a specified type of object. |
| Details | All details, including child objects, should be returned for a specified type of object. |

### 2.2.5.26 SearchOption

The **SearchOption** simple type specifies the scope of metadata objects to be searched. **SearchOption** allows the exclusion or inclusion of user-created objects and system objects.

The following is the XML schema definition of the **SearchOption** simple type.

```
<xs:simpleType name="SearchOption">
  <xs:restriction base="xs:string">
    <xs:enumeration value="UserDefinedObjectsOnly" />
    <xs:enumeration value="SystemObjectsOnly" />
    <xs:enumeration value="BothUserDefinedAndSystemObjects" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| UserDefinedObjectsOnly | Return only user-defined objects. Exclude system objects. |



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| Value | Meaning |
|---|---|
| SystemObjectsOnly | Return only system objects. Exclude user-defined objects. |
| BothUserDefinedAndSystemObjects | Return both user-defined and system objects. |

### 2.2.5.27 SecurityPermission

The **SecurityPermission** simple type specifies the effective security permission for a user of an MDS object.

The following is the XML schema definition of the **SecurityPermission** simple type.

```
<xs:simpleType name="SecurityPermission">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Read">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Update" />
      <xs:enumeration value="Inferred">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | Security permission has not been specified in any way. |
| Read | Permission to view the element is provided, but the value cannot be changed. |
| Update | Access to read and update is assigned. |
| Inferred | Permission has been provided by a parent entity bestowing rights. |

### 2.2.5.28 SecurityResolutionType

The **SecurityResolutionType** simple type specifies the resolution specification when returning security permissions. Permissions may be retrieved as they were assigned or in a net effective list of permissions.

The following is the XML schema definition of the **SecurityResolutionType** simple type.



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```
<xs:simpleType name="SecurityResolutionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="UserAndGroup" />
    <xs:enumeration value="Users" />
    <xs:enumeration value="Effective" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| UserAndGroup | Return permissions that are assigned directly to the user and those that are assigned to groups to which the user belongs. |
| Users | Return permissions that are assigned directly to the user. |
| Effective | Return the effective set of permissions for the user, resolving the effects of overlaps. |

### 2.2.5.29 SortDirection

The **SortDirection** simple type specifies the sort direction of a sorted column.

The following is the XML schema definition of the **SortDirection** simple type.

```
<xs:simpleType name="SortDirection">
   <xs:restriction base="xs:string">
     <xs:enumeration value="Asc" />
     <xs:enumeration value="Desc" />
   </xs:restriction>
 </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| Asc | Sort results in ascending order. |
| Desc | Sort results in descending order. |

### 2.2.5.30 StagingBatchStatus

The **StagingBatchStatus** simple type specifies the processing status of a staging (import) batch.

The following is the XML schema definition of the **StagingBatchStatus** simple type.

```
<xs:simpleType name="StagingBatchStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="All" />
    <xs:enumeration value="QueuedToRun" />
    <xs:enumeration value="NotRunning" />
    <xs:enumeration value="Running" />
    <xs:enumeration value="QueuedToClear" />
    <xs:enumeration value="Cleared" />
```



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```
      <xs:enumeration value="AllExceptCleared" />
      <xs:enumeration value="Completed" />
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| All | This value indicates all statuses. |
| QueuedToRun | The batch is queued for processing. |
| NotRunning | The batch is not running and is not queued for processing. |
| Running | The batch is being processed. |
| QueuedToClear | The batch is queued for deletion of the records. |
| Cleared | The records in the batch have been deleted. |
| AllExceptCleared | This value indicates all statuses except for the Cleared status. |
| Completed | The batch is finished being processed. |

### 2.2.5.31 StagingDataStatus

The **StagingDataStatus** simple type specifies a status that indicates the success or failure of staging records.

The following is the XML schema definition of the **StagingDataStatus** simple type.

```
<xs:simpleType name="StagingDataStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="All" />
    <xs:enumeration value="Successful" />
    <xs:enumeration value="Error" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| All | The status is inclusive of successful records and error records. |
| Successful | The status indicates staging records that were loaded successfully. |
| Error | The status indicates staging records that did not load. |

### 2.2.5.32 SystemPropertyType

The **SystemPropertyType** simple type specifies the identifying name of one of the available system properties.



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The following is the XML schema definition of the **SystemPropertyType** simple type.

```
<xs:simpleType name="SystemPropertyType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DatabaseSchemaVersion" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
| --- | --- |
| DatabaseSchemaVersion | Specifies the version of the MDS schema installed. |

### 2.2.5.33 TransactionType

The **TransactionType** simple type specifies the type of member change that is identified in a transaction.

The following is the XML schema definition of the **TransactionType** simple type.

```
  <xs:simpleType name="TransactionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="CreateMember">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ChangeMemberStatus">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="SetAttributeValue">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MoveMemberToParent">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MoveMemberToSibling">
        <xs:annotation>
```



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```
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="AnnotateMember">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| CreateMember=1 | A member was created. |
| ChangeMemberStatus=2 | A member was deleted (deactivated) or undeleted (reactivated). |
| SetAttributeValue=3 | An attribute value of a member was changed. |
| MoveMemberToParent=4 | A member was moved under a new parent in an explicit hierarchy. |
| MoveMemberToSibling=5 | A member was moved behind a new sibling in an explicit hierarchy. |
| AnnotateMember=6 | An annotation was added to a member. |

### 2.2.5.34 ValidationStatus

The **ValidationStatus** simple type specifies the validation status of a master data member.

The following is the XML schema definition of the **ValidationStatus** simple type.

```
<xs:simpleType name="ValidationStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NewAwaitingValidation" />
      <xs:enumeration value="ValidationFailed" />
      <xs:enumeration value="ValidationSucceeded" />
      <xs:enumeration value="AwaitingRevalidation" />
      <xs:enumeration value="AwaitingDependentMemberRevalidation" />
    </xs:restriction>
  </xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NewAwaitingValidation | A member that has not been validated yet. This condition occurs after a new business rule is added or members are staged into |



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| Value | Meaning |
|---|---|
| | the system. |
| ValidationFailed | A member that has failed at least one active business rule. |
| ValidationSucceeded | A member that has passed all active business rules. |
| AwaitingRevalidation | A member that needs to be validated again. Revalidation occurs after business rules that could affect the member's attributes are updated. |
| AwaitingDependentMemberRevalidation | A member that is to be calculated is waiting for its precursor member to be validated again. |

### 2.2.5.35 VersionStatus

The **VersionStatus** simple type specifies the status of a version.

The following is the XML schema definition of the **VersionStatus** simple type.

```
<xs:simpleType name="VersionStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="Open" />
    <xs:enumeration value="Locked" />
    <xs:enumeration value="Committed" />
  </xs:restriction>
</xs:simpleType>
```

The values of the enumeration are described in the following table.

| Value | Meaning |
|---|---|
| NotSpecified | The version status is not specified. This value MUST NOT be used. |
| Open | The version is an open version, meaning that users may make updates (security permitting). |
| Locked | The version is a locked version, meaning that users may not make updates and that version administrators can perform final validations or revisions prior to committing. |
| Committed | The version is a committed version, meaning that no changes may be made. |

### 2.2.5.36 VersionValidationStatus

The **VersionValidationStatus** simple type specifies the validation status of a version.

The following is the XML schema definition of the **VersionValidationStatus** simple type.

```
<xs:simpleType name="VersionValidationStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotSpecified" />
    <xs:enumeration value="NotValidated" />
    <xs:enumeration value="Validated" />
  </xs:restriction>
```



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

The values of the enumeration are described in the following table.

| Value | Meaning |
| --- | --- |
| NotSpecified | The validation status is unknown. |
| NotValidated | The version is not fully validated. |
| Validated | The version is fully validated. |

### 2.2.6 Attributes

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

### 2.2.7 Groups

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

### 2.2.8 Attribute Groups

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



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# 3 Protocol Details

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.

## 3.1 Server Details

### 3.1.1 Abstract Data Model

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

The MDS model high-level features are as follows:

- A model is a collection of entities and derived hierarchies.
- An entity is a collection of leaf members, attributes, attribute groups, and (if explicit hierarchies are enabled) a collection of consolidated members and conditions.
- A derived hierarchy is a collection of derived hierarchy levels.
- A derived hierarchy level is an entity that is connected by a domain-based attribute relationship.
- A business rule is a collection of business rule actions and business rule conditions.

### 3.1.2 Timers

None.

### 3.1.3 Initialization

The server MUST start and begin listening for requests. All connections are stateless, so no further initialization is required.

### 3.1.4 Message Processing Events and Sequencing Rules

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

| Operation | Description |
|---|---|
| AnnotationsDelete | Deletes an existing annotation. |
| AnnotationsUpdate | Updates an existing annotation. |
| BusinessRulesClone | Creates new business rules that are exact copies of business rules from another source, while retaining the GUIDs of the original objects. |
| BusinessRulesCreate | Creates new business rules. |
| BusinessRulesDelete | Deletes a business rule or the components of rules. |



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| Operation | Description |
|---|---|
| BusinessRulesGet | Retrieves business rules. |
| BusinessRulesPaletteGet | Retrieves available business rule components (the component palette). |
| BusinessRulesPublish | Publishes business rules for a model type, entity type, or member type. |
| BusinessRulesUpdate | Updates existing business rules. |
| EntityMemberAnnotationsCreate | Creates new annotations that are attached to a member. |
| EntityMemberAnnotationsGet | Retrieves annotations that are attached to a member. |
| EntityMemberAttributesGet | Retrieves a specified set of attribute values from a specified list of members. |
| EntityMemberKeyLookup | Looks up either a member code or an internal ID based on the other member code or internal ID and the provided context. |
| EntityMembersCopy | Copies selected members to new target members. |
| EntityMembersCreate | Creates new members. |
| EntityMembersDelete | Deletes (deactivates) selected members. |
| EntityMembersGet | Retrieves a filtered set of members and their data from an entity. |
| EntityMembersMerge | Creates new members and updates existing members. |
| EntityMembersUpdate | Updates existing members. |
| ExportViewCreate | Generates or regenerates desired subscription views. |
| ExportViewDelete | Removes an existing export view. |
| ExportViewListGet | Retrieves a list of existing export views. |
| ExportViewUpdate | Updates an existing export view. |
| HierarchyMembersGet | Retrieves parent-child members from a hierarchy relative to a parent node. |
| MetadataClone | Creates exact copies of metadata components from another source, while retaining the GUIDs of the original objects. |
| MetadataCreate | Creates new metadata components. |
| MetadataDelete | Deletes metadata components. |
| MetadataGet | Searches for and returns metadata from an MDS repository. |
| MetadataUpdate | Updates existing metadata objects within an MDS repository. |
| ModelMembersBulkDelete | Begins the asynchronous deletion of members. |
| ModelMembersBulkMerge | Begins the asynchronous creation and/or update of member data across one or more entities. |
| ModelMembersBulkUpdate | Begins the asynchronous update of member data across one or more |



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| Operation | Description |
| --- | --- |
| | entities. |
| ModelMembersGet | Retrieves complete lists of entity members and/or hierarchies for selected models. |
| SecurityPrincipalsClone | Creates exact copies of users, groups, and their permissions within the security model from another source, while retaining the GUIDs of the original objects. |
| SecurityPrincipalsCreate | Creates new users, groups, and their permissions within the security model. |
| SecurityPrincipalsDelete | Deletes users and groups. |
| SecurityPrincipalsGet | Retrieves the security principals and their permissions. |
| SecurityPrincipalsUpdate | Updates an Active Directory user or group in MDS. |
| SecurityPrivilegesClone | Creates exact copies of permissions within the security model from another source, while retaining the GUIDs of the original objects. |
| SecurityPrivilegesCreate | Creates security permissions for a particular security principal. |
| SecurityPrivilegesDelete | Deletes permissions. |
| SecurityPrivilegesGet | Retrieves security permissions for selected principals and/or models. |
| SecurityPrivilegesUpdate | Updates security permissions for a particular security principal that already exists. |
| ServiceCheck | Checks the availability of the web service. |
| StagingClear | Clears the bulk staging area. |
| StagingGet | Retrieves the contents of the bulk staging area. |
| StagingProcess | Sweeps existing unbatched records in the staging tables into a batch for processing and launches execution of the staging queue on request. |
| SystemDomainListGet | Retrieves a localized fixed list of choices based on a list code. |
| SystemPropertiesGet | Retrieves immutable properties about the system. |
| SystemSettingsGet | Retrieves a list of system settings. |
| SystemSettingsUpdate | Updates system setting values. |
| TransactionAnnotationsCreate | Creates new annotations that are attached to an existing transaction. |
| TransactionAnnotationsGet | Retrieves a filtered list of transactions from a model. |
| TransactionsGet | Retrieves a filtered list of transactions from a model. |
| TransactionsReverse | Reverses one or more existing transactions. |
| UserPreferencesDelete | Deletes the current user's preferences. |
| UserPreferencesGet | Retrieves the current user's preferences. |



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| Operation | Description |
|---|---|
| UserPreferencesUpdate | Updates the current user's preferences. |
| ValidationGet | Retrieves filtered validation results from a model. |
| ValidationProcess | Processes validations (business rules) for selected members within a model. |
| VersionCopy | Copies a model's version to a new version. |

#### 3.1.4.1 AnnotationsDelete

The **AnnotationsDelete** operation deletes an existing annotation by annotation ID. Only the user who created the annotation or a model administrator can delete an annotation. The annotations are found by ID.

The following is the WSDL definition of the **AnnotationsDelete** operation.

```
    <wsdl:operation name="AnnotationsDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsDelete" name="AnnotationsDeleteRequest" message="tns:AnnotationsDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsDeleteResponse" name="AnnotationsDeleteResponse"
message="tns:AnnotationsDeleteResponse" />
    </wsdl:operation>
```

##### 3.1.4.1.1 Messages

The following **WSDL message** definitions are specific to the **AnnotationsDelete** operation.

###### 3.1.4.1.1.1 AnnotationsDeleteRequest

The **AnnotationsDeleteRequest** message contains the **AnnotationsDeleteRequest** element.

###### 3.1.4.1.1.2 AnnotationsDeleteResponse

The **AnnotationsDeleteResponse** message contains the **AnnotationsDeleteResponse** element.

##### 3.1.4.1.2 Elements

The following XML schema element definitions are specific to the **AnnotationsDelete** operation.

###### 3.1.4.1.2.1 AnnotationsDeleteRequest

The **AnnotationsDeleteRequest** element specifies the details of the request.

The following is the XML schema definition of the **AnnotationsDeleteRequest** element.

```
<xs:element name="AnnotationsDeleteRequest">
  <xs:complexType>
    <xs:sequence>
```



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```
        <xs:element minOccurs="0" name="Id" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**ID**: Specifies the integer ID of the annotation to be deleted.

#### 3.1.4.1.2.2 AnnotationsDeleteResponse

The **AnnotationsDeleteResponse** element holds the details of the response.

The following is the XML schema definition of the **AnnotationsDeleteResponse** element.

```
  <xs:element name="AnnotationsDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q75="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q75:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.2 AnnotationsUpdate

The **AnnotationsUpdate** operation updates the comment text of an existing annotation. Only the user who created the annotation or a model administrator can update an annotation. A model administrator is one who has "Update" permission on the model and no other model permissions. The annotations are found by ID. The annotation's text is replaced with the supplied **Comment** property.

The following is the WSDL definition of the **AnnotationsUpdate** operation.

```
    <wsdl:operation name="AnnotationsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsUpdate" name="AnnotationsUpdateRequest" message="tns:AnnotationsUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsUpdateResponse" name="AnnotationsUpdateResponse"
message="tns:AnnotationsUpdateResponse" />
    </wsdl:operation>
```

#### 3.1.4.2.1 Messages

The following WSDL message definitions are specific to the **AnnotationsUpdate** operation.

##### 3.1.4.2.1.1 AnnotationsUpdateRequest

The **AnnotationsUpdateRequest** message contains the **AnnotationsUpdateRequest** element.



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#### 3.1.4.2.1.2 AnnotationsUpdateResponse

The **AnnotationsUpdateResponse** message contains the **AnnotationsUpdateResponse** element.

### 3.1.4.2.2 Elements

The following XML schema element definitions are specific to the **AnnotationsUpdate** operation.

#### 3.1.4.2.2.1 AnnotationsUpdateRequest

The **AnnotationsUpdateRequest** element specifies the details of the annotations update request.

The following is the XML schema definition of the **AnnotationsUpdateRequest** element.

```
<xs:element name="AnnotationsUpdateRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Comment" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Id" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**Comment**: Specifies the string of the annotation comment.

**ID**: Specifies the annotation ID.

#### 3.1.4.2.2.2 AnnotationsUpdateResponse

The **AnnotationsUpdateResponse** element holds the details of the response from AnnotationsUpdateRequest.

The following is the XML schema definition of the **AnnotationsUpdateResponse** element.

```
<xs:element name="AnnotationsUpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q74="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q74:OperationResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

## 3.1.4.3 BusinessRulesClone

The **BusinessRulesClone** operation creates new business rule objects as exact copies of objects in another MDM hub instance. This operation is similar to BusinessRulesCreate except as specified here.

The GUID of each item (and the name for business rules) is required in the request. Rules have names, but actions, conditions, and condition tree nodes do not. The GUID is inserted rather than



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generated (as in a Create operation). If the request contains a GUID that matches an existing object in the hub of the same type, that object is updated.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **BusinessRulesClone** operation.

```
    <wsdl:operation name="BusinessRulesClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesClone" name="BusinessRulesCloneRequest" message="tns:BusinessRulesCloneRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCloneResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

#### 3.1.4.3.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesClone** operation.

##### 3.1.4.3.1.1 BusinessRulesCloneRequest

The **BusinessRulesCloneRequest** request message contains the **BusinessRulesCloneRequest** element.

#### 3.1.4.3.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesClone** operation.

##### 3.1.4.3.2.1 BusinessRulesCloneRequest

The **BusinessRulesCloneRequest** request element MUST include a BusinessRules type that contains business rules and/or business rule components for creation in the MDS repository.

The following is the XML schema definition of the **BusinessRulesCloneRequest** request element.

```
<xs:element name="BusinessRulesCloneRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q350="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q350:BusinessRules" />

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

**BusinessRuleSet**: Specifies a **BusinessRules** complex type.

### 3.1.4.4 BusinessRulesCreate

The **BusinessRulesCreate** operation creates new business rules and business rule components within the MDS repository. Each new business rule or component is created with the names that are provided, and a new GUID is generated for each item. Any components in the request that already



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exist in the model, matched by name and parent context (**EntityId** and MemberType), result in errors.

The BusinessRules data type in the request includes placeholders for all information about a business rule, including its descriptive and state information and its component conditions and actions.

GUIDs may be included in a request (for example, the business rule definition was sourced from another MDM hub instance). However, the GUIDs are ignored. For more information about the preservation of GUIDs, see section 3.1.4.3.

Newly created objects and their GUIDs are returned in the response as a **BusinessRules** type if **ReturnCreatedIdentifiers** is set to true in the request.

Specified domain-based attribute values in arguments of conditions or actions are validated against all open versions. Attribute values that are not found result in errors.

The following is the WSDL definition of the **BusinessRulesCreate** operation.

```
    <wsdl:operation name="BusinessRulesCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCreate" name="BusinessRulesCreateRequest" message="tns:BusinessRulesCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCreateResponse" name="BusinessRulesCreateResponse"
message="tns:BusinessRulesCreateResponse" />
    </wsdl:operation>
```

#### 3.1.4.4.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesCreate** operation.

##### 3.1.4.4.1.1 BusinessRulesCreateRequest

The **BusinessRulesCreateRequest** request message contains the **BusinessRulesCreateRequest** element.

##### 3.1.4.4.1.2 BusinessRulesCreateResponse

The **BusinessRulesCreateResponse** message contains the **BusinessRulesCreateResponse** element.

#### 3.1.4.4.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesCreate** operation.

##### 3.1.4.4.2.1 BusinessRulesCreateRequest

The **BusinessRulesCreateRequest** request element MUST include a BusinessRules type that contains new business rules or business rule components for creation.

The following is the XML schema definition of the **BusinessRulesCreateRequest** element.



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```
<xs:element name="BusinessRulesCreateRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q410="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q410:BusinessRules" />
      <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />

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

**BusinessRuleSet**: Specifies a **BusinessRules** complex type that contains items to be created.

**ReturnCreatedIdentifiers**: Specifies a **Boolean** that is set to true to request the return of created items, including their assigned GUIDs.

#### 3.1.4.4.2.2 BusinessRulesCreateResponse

The following is the XML schema definition of the **BusinessRulesCreateResponse** element.

```
  <xs:element name="BusinessRulesCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q144="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="BusinessRuleSet" nillable="true" type="q144:BusinessRules" />
        <xs:element xmlns:q145="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q145:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**BusinessRuleSet**: Specifies a BusinessRules complex type that echoes the created items if **ReturnCreatedItems** is set to true in the request.

### 3.1.4.5 BusinessRulesDelete

The **BusinessRulesDelete** operation deletes one or more business rules or deletes conditions or actions from business rules. This operation issues individual Delete transactions for each item. An error is reported for each item that is not found.

The failure or inability to delete one item does not affect the attempt to delete or the successful deletion of other items. Multiple granular calls for individual items can be implemented if alternative error handling is required.

With the input from BRDeleteCriteria, one of the following sets of GUIDs is specified:

- The GUIDs of one or more business rules.
- The GUIDs of the conditions, actions, or condition tree nodes (ANDs, ORs) of the business rules.

Delete transactions cascade to dependent objects. For example, when a business rule is deleted, all components that are attached to that business rule are deleted.

This operation returns a standard MessageResponse message.



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The following is the WSDL definition of the **BusinessRulesDelete** operation.

```
    <wsdl:operation name="BusinessRulesDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesDelete" name="BusinessRulesDeleteRequest" message="tns:BusinessRulesDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesDeleteResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

#### 3.1.4.5.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesDelete** operation.

##### 3.1.4.5.1.1 BusinessRulesDeleteRequest

The **BusinessRulesDeleteRequest** request message contains the **BusinessRulesDeleteRequest** element.

#### 3.1.4.5.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesDelete** operation.

##### 3.1.4.5.2.1 BusinessRulesDeleteRequest

The **BusinessRulesDeleteRequest** request element MUST include a BRDeleteCriteria that contains business rule GUIDs and/or business rule component GUIDs for deletion.

The following is the XML schema definition of the **BusinessRulesDeleteRequest** element.

```
<xs:element name="BusinessRulesDeleteRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q413="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="DeleteCriteria" nillable="true" type="q413:BRDeleteCriteria" />

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

#### 3.1.4.5.3 Complex Types

The following XML schema complex type definitions are specific to the **BusinessRulesDelete** operation.

##### 3.1.4.5.3.1 BRDeleteCriteria

The **BRDeleteCriteria** complex type specifies lists of GUIDs for business rule items to be deleted.

The following is the XML schema definition of the **BRDeleteCriteria** complex type.



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```
  <xs:complexType name="BRDeleteCriteria">
    <xs:sequence>
      <xs:element xmlns:q50="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BRConditionTreeNodes" nillable="true" type="q50:ArrayOfguid" />
      <xs:element xmlns:q51="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BRItems" nillable="true" type="q51:ArrayOfguid" />
      <xs:element xmlns:q52="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BusinessRules" nillable="true" type="q52:ArrayOfguid" />
    </xs:sequence>
  </xs:complexType>
```

**BRConditionTreeNodes**: Specifies an **ArrayOfGuid** that contains GUIDs of condition tree nodes to be deleted.

**BRItems**: Specifies an **ArrayOfGuid** that contains GUIDs of conditions or actions to be deleted.

**BusinessRules**: Specifies an **ArrayOfGuid** that contains GUIDs of business rules to be deleted.

### 3.1.4.6 BusinessRulesGet

The **BusinessRulesGet** operation queries the existing business rules from an MDS repository. The operation returns a representative data model of the business rule structure and content.

The BRGetCriteria complex type specifies the desired filters. Each parameter is optional, and those that are specified are combined with AND logic.

The BRResultOptions complex type specifies the details that are desired in the output model. ResultType defaults to "none" in each case. The returned BusinessRules type may contain collection of business rules, condition tree nodes, conditions, and/or actions. Each property of the resulting **BusinessRules** type is populated or not, according to the corresponding **ResultType**. A request that does not specify at least one **BRResultOption** other than "none" results in an error, as this does not provide any data.

The following is the WSDL definition of the **BusinessRulesGet** operation.

```
    <wsdl:operation name="BusinessRulesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesGet" name="BusinessRulesGetRequest" message="tns:BusinessRulesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesGetResponse" name="BusinessRulesGetResponse" message="tns:BusinessRulesGetResponse"
/>
    </wsdl:operation>
```

#### 3.1.4.6.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesGet** operation.

##### 3.1.4.6.1.1 BusinessRulesGetRequest

The **BusinessRulesGetRequest** request message contains the **BusinessRulesGetRequest** element.



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#### 3.1.4.6.1.2 BusinessRulesGetResponse

The **BusinessRulesGetResponse** response message contains the **BusinessRulesGetResponse** element.

### 3.1.4.6.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesGet** operation.

#### 3.1.4.6.2.1 BusinessRulesGetRequest

The **BusinessRulesGetRequest** request message MUST have a populated BRGetCriteria complex type.

The following is the XML schema definition of the **BusinessRulesGetRequest** message.

```
<xs:element name="BusinessRulesGetRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q418="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="GetCriteria" nillable="true" type="q418:BRGetCriteria" />
      <xs:element
xmlns:q419="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ResultOptions" nillable="true" type="q419:BRResultOptions" />

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

#### 3.1.4.6.2.2 BusinessRulesGetResponse

The **BusinessRulesGetResponse** response message returns a BusinessRules type that contains requested business rules or rule components.

The following is the XML schema definition of the **BusinessRulesGetResponse** message.

```
  <xs:element name="BusinessRulesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q149="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="BusinessRuleSet" nillable="true" type="q149:BusinessRules" />
        <xs:element xmlns:q150="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q150:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.6.3 Complex Types

The following XML schema complex type definitions are specific to the **BusinessRulesGet** operation.



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#### 3.1.4.6.3.1 BRGetCriteria

The **BRGetCriteria** complex type specifies GUIDs or names of the desired model, entity, or member type.

The following is the XML schema definition of the **BRGetCriteria** complex type.

```
<xs:complexType name="BRGetCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="AttributeId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="BusinessRuleIds" nillable="true"
type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="MemberType" type="tns:BREntityMemberType" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
  </xs:sequence>
</xs:complexType>
```

**ModelId**: Specifies an identifier that specifies the GUID or the exact name of the model.

**EntityId**: Specifies an identifier that specifies the GUID or the exact name of the entity.

**MemberType**: Specifies a BREntityMemberType that specifies leaf, parent, or collection members.

**AttributeId**: Specifies an identifier that specifies the GUID or the exact name of the attribute to retrieve business rules that are related to the specified attribute.

**BusinessRuleIds**: Specifies an array of identifiers that specify the GUIDs of the business rules to retrieve.

#### 3.1.4.6.3.2 BRResultOptions

The **BRResultOptions** complex type specifies the desired format of the returned BusinessRules type.

The following is the XML schema definition of the **BRResultOptions** complex type.

```
<xs:complexType name="BRResultOptions">
  <xs:sequence>
    <xs:element minOccurs="0" name="BRActions" type="tns:ResultType" />
    <xs:element minOccurs="0" name="BRConditionTreeNodes" type="tns:ResultType" />
    <xs:element minOccurs="0" name="BRConditions" type="tns:ResultType" />
    <xs:element minOccurs="0" name="BusinessRules" type="tns:ResultType" />
  </xs:sequence>
</xs:complexType>
```

**BRActions**: Specifies a ResultType that controls the population of the **BRActions** property in **BusinessRules**.

**BRConditionTreeNodes**: Specifies a **ResultType** that controls the population of the **BRConditionTreeNodes** property in **BusinessRules**.

**BRConditions**: Specifies a **ResultType** that controls the population of the **BRConditions** property in **BusinessRules**.



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**BusinessRules**: Specifies a **ResultType** that controls the population of the **BusinessRules** property in **BusinessRules**.

### 3.1.4.7 BusinessRulesPaletteGet

The **BusinessRulesPaletteGet** operation retrieves a palette of available rule components within the system. Obtaining the desired, valid component ID is essential in building a new rule or adding a new rule component. The rule components list includes available actions and available conditions. The available actions are grouped into the following action groups:

- Default value
- Change value
- Validation

The following is the WSDL definition of the **BusinessRulesPaletteGet** operation.

```
<wsdl:operation name="BusinessRulesPaletteGet">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPaletteGet" name="BusinessRulesPaletteGetRequest"
message="tns:BusinessRulesPaletteGetRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPaletteGetResponse" name="BusinessRulesPaletteGetResponse"
message="tns:BusinessRulesPaletteGetResponse"/>
</wsdl:operation>
```

#### 3.1.4.7.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesPaletteGet** operation.

##### 3.1.4.7.1.1 BusinessRulesPaletteGetRequest

The **BusinessRulesPaletteGetRequest** request message contains the BusinessRulesPaletteGetRequest element.

##### 3.1.4.7.1.2 BusinessRulesPaletteGetResponse

The **BusinessRulesPaletteGetResponse** response message contains the **BusinessRulesPaletteGetResponse** element.

#### 3.1.4.7.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesPaletteGet** operation.

##### 3.1.4.7.2.1 BusinessRulesPaletteGetRequest

The **BusinessRulesPaletteGetRequest** request element MUST include a **MemberType** input. The allowable business rule components may be limited based on the member type that is specified.

The following is the XML schema definition of the **BusinessRulesPaletteGetRequest** element.



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```
<xs:element name="BusinessRulesPaletteGetRequest"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q316="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberType" type="q316:BREntityMemberType" />

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

**MemberType**: Specifies a BREntityMemberType simple type.

#### 3.1.4.7.2.2 BusinessRulesPaletteGetResponse

The **BusinessRulesPaletteGetResponse** response element includes available conditions and actions for use in business rules.

The following is the XML schema definition of the **BusinessRulesPaletteGetResponse** response element.

```
  <xs:element name="BusinessRulesPaletteGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q140="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="BusinessRulesPalette" nillable="true" type="q140:BusinessRulesPalette" />
        <xs:element xmlns:q141="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q141:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**BusinessRulesPalette**: Specifies a BusinessRulesPalette complex type that contains available conditions and actions for use in business rules.

### 3.1.4.8 BusinessRulesPublish

The **BusinessRulesPublish** operation publishes business rule updates for a particular model, entity, and member type.

The business rules are identified by Model, Entity, and **MemberType** using the BRPublishCriteria complex type. Each parameter is optional, and multiple specified parameters are combined with an AND to select business rules for publication. If no parameters are specified, all rules are published.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **BusinessRulesPublish** operation.

```
    <wsdl:operation name="BusinessRulesPublish">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPublish" name="BusinessRulesPublishRequest" message="tns:BusinessRulesPublishRequest"
/>
```



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```
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPublishResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

#### 3.1.4.8.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesPublish** operation.

##### 3.1.4.8.1.1 BusinessRulesPublishRequest

The **BusinessRulesPublishRequest** request message contains the **BusinessRulesPublishRequest** element.

#### 3.1.4.8.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesPublish** operation.

##### 3.1.4.8.2.1 BusinessRulesPublishRequest

The **BusinessRulesPublishRequest** element can include a BRPublishCriteria to limit which business rules are published. Otherwise, all business rules for all models, entities, and member types are published.

The following is the XML schema definition of the **BusinessRulesPublishRequest** element.

```
<xs:element name="BusinessRulesPublishRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q433="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BRPublishCriteria" nillable="true" type="q433:BRPublishCriteria" />

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

#### 3.1.4.8.3 Complex Types

The following XML schema complex type definitions are specific to the **BusinessRulesPublish** operation.

##### 3.1.4.8.3.1 BRPublishCriteria

The **BRPublishCriteria** complex type sets the scope of rules to be published.

The following is the XML schema definition of the **BRPublishCriteria** complex type.

```
  <xs:complexType name="BRPublishCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="MemberType" type="tns:BREntityMemberType" />
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
```



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

**ModelId**: Specifies an identifier for the model of the business rules to be published.

**EntityId**: Specifies an identifier for the entity of the business rules to be published.

**MemberType**: Specifies a member type within the entity of the business rules to be published.

All parameters are optional with the following exceptions:

- Specification of a member type requires the specification of an entity.
- Specification of an entity by name requires the specification of a model.

### 3.1.4.9 BusinessRulesUpdate

The **BusinessRulesUpdate** operation updates existing business rules, conditions, or actions within the MDS repository.

Business rule items in the request are matched to existing repository items by GUID only. Existing GUIDs MUST be specified for items to be updated. Each GUID that is not found is returned as a separate error.

Each item's update is attempted and committed as an individual transaction regardless of the failure of other items. The operation does not complete a business rule name change that results in a duplicate name within the same context.

A model of business rules or components for update is created by using the **BRModel** that contains one or more BusinessRule data types. The BusinessRules data type includes placeholders for all information about a business rule, including its descriptive and state information and its component conditions and actions.

A version MUST be specified and is used to validate specified domain-based attribute values in arguments of conditions or actions. Attribute values that are not found result in errors.

The **BusinessRulesUpdate** operation returns a standard MessageResponse message.

The following is the WSDL definition of the **BusinessRulesUpdate** operation.

```
    <wsdl:operation name="BusinessRulesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesUpdate" name="BusinessRulesUpdateRequest" message="tns:BusinessRulesUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

#### 3.1.4.9.1 Messages

The following XML schema message definitions are specific to the **BusinessRulesUpdate** operation.



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#### 3.1.4.9.1.1 BusinessRulesUpdateRequest

The **BusinessRulesUpdateRequest** request message contains the **BusinessRulesUpdateRequest** element.

### 3.1.4.9.2 Elements

The following XML schema element definitions are specific to the **BusinessRulesUpdate** operation.

#### 3.1.4.9.2.1 BusinessRulesUpdateRequest

The **BusinessRulesUpdateRequest** request message MUST include a BusinessRules type that contains business rules or business rule components and their updated properties.

The following is the XML schema definition of the **BusinessRulesUpdateRequest** message.

```
<xs:element name="BusinessRulesUpdateRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q438="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q438:BusinessRules" />

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

**BusinessRuleSet**: Specifies a **BusinessRules** complex type.

### 3.1.4.10 EntityMemberAnnotationsCreate

The **EntityMemberAnnotationsCreate** operation adds annotations to a member that are not associated with a transaction.

The following inputs are required to specify the contents:

- Model ID
- Version ID
- Entity ID
- Member ID

Additionally, one or more annotation comments MUST be included in a collection of annotations.

The following is the WSDL definition of the **EntityMemberAnnotationsCreate** operation.

```
    <wsdl:operation name="EntityMemberAnnotationsCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsCreate" name="EntityMemberAnnotationsCreateRequest"
message="tns:EntityMemberAnnotationsCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
```



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```
yMemberAnnotationsCreateResponse" name="AnnotationsCreateResponse"
message="tns:AnnotationsCreateResponse" />
    </wsdl:operation>
```

#### 3.1.4.10.1 Messages

The following WSDL message definitions are specific to the **EntityMemberAnnotationsCreate** operation.

##### 3.1.4.10.1.1 EntityMemberAnnotationsCreateRequest

The **EntityMemberAnnotationsCreateRequest** message contains the **EntityMemberAnnotationsCreateRequest** element.

##### 3.1.4.10.1.2 AnnotationsCreateResponse

The **AnnotationsCreateResponse** message contains the **AnnotationsCreateResponse** element.

#### 3.1.4.10.2 Elements

The following XML schema element definitions are specific to the **EntityMemberAnnotationsCreate** operation.

##### 3.1.4.10.2.1 EntityMemberAnnotationsCreateRequest

The **EntityMemberAnnotationsCreateRequest** element specifies the details of what is requested when creating entity member annotations.

The following is the XML schema definition of the **EntityMemberAnnotationsCreateRequest** element.

```
  <xs:element name="EntityMemberAnnotationsCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q56="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Annotations" nillable="true" type="q56:ArrayOfAnnotation" />
        <xs:element xmlns:q57="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityId" nillable="true" type="q57:Identifier" />
        <xs:element xmlns:q58="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberId" nillable="true" type="q58:MemberIdentifier" />
        <xs:element xmlns:q59="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelId" nillable="true" type="q59:Identifier" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q60="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="VersionId" nillable="true" type="q60:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Annotations**: Specifies an array of annotations to create that is represented by the ArrayOfAnnotation complex type.

**EntityId**: Specifies the GUID or the exact name of the entity.

**MemberId**: Specifies the MemberIdentifier of the member.



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**ModelId**: Specifies the GUID or the exact name of the model.

**ServiceConnectionName**: Specifies the service connection name.

**VersionId**: Specifies the GUID or the exact name of the model version.

#### 3.1.4.10.2.2 AnnotationsCreateResponse

The **AnnotationsCreateResponse** element holds the details of the response.

The following is the XML schema definition of the **AnnotationsCreateResponse** element.

```
  <xs:element name="AnnotationsCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q61="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q61:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.11 EntityMemberAnnotationsGet

The **EntityMemberAnnotationsGet** operation retrieves annotations that are associated directly with a member (but not associated with a transaction).

The following inputs are required:

- Model ID
- Version ID
- Entity ID
- Member ID

The following is the WSDL definition of the **EntityMemberAnnotationsGet** operation.

```
    <wsdl:operation name="EntityMemberAnnotationsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsGet" name="EntityMemberAnnotationsGetRequest"
message="tns:EntityMemberAnnotationsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsGetResponse" name="EntityMemberAnnotationsGetResponse"
message="tns:EntityMemberAnnotationsGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.11.1 Messages

The following WSDL message definitions are specific to the **EntityMemberAnnotationsGet** operation.



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#### 3.1.4.11.1.1 EntityMemberAnnotationsGetRequest

The **EntityMemberAnnotationsGetRequest** message contains the **EntityMemberAnnotationsGetRequest** element.

#### 3.1.4.11.1.2 EntityMemberAnnotationsGetResponse

The **EntityMemberAnnotationsGetResponse** message contains the **EntityMemberAnnotationsGetResponse** element.

### 3.1.4.11.2 Elements

The following XML schema element definitions are specific to the **EntityMemberAnnotationsGet** operation.

#### 3.1.4.11.2.1 EntityMemberAnnotationsGetRequest

The **EntityMemberAnnotationsGetRequest** element specifies the details of what is requested.

The following is the XML schema definition of the **EntityMemberAnnotationsGetRequest** element.

```
<xs:element name="EntityMemberAnnotationsGetRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q63="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityId" nillable="true" type="q63:Identifier" />
      <xs:element xmlns:q64="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberId" nillable="true" type="q64:MemberIdentifier" />
      <xs:element xmlns:q65="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelId" nillable="true" type="q65:Identifier" />
      <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      <xs:element xmlns:q66="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="VersionId" nillable="true" type="q66:Identifier" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**EntityId**: Specifies the GUID or the exact name of an entity.

**MemberId**: Specifies the MemberIdentifier of the member whose annotations are requested.

**ModelId**: Specifies the GUID or the exact name of a model.

**VersionId**: Specifies the GUID or the exact name of a model version.

#### 3.1.4.11.2.2 EntityMemberAnnotationsGetResponse

The **EntityMemberAnnotationsGetResponse** element holds the details of the response.

The following is the XML schema definition of the **EntityMemberAnnotationsGetResponse** element.

```
<xs:element name="EntityMemberAnnotationsGetResponse">
  <xs:complexType>
```



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```
      <xs:sequence>
        <xs:element xmlns:q67="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityId" nillable="true" type="q67:Identifier" />
        <xs:element xmlns:q68="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberId" nillable="true" type="q68:MemberIdentifier" />
        <xs:element xmlns:q69="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelId" nillable="true" type="q69:Identifier" />
        <xs:element xmlns:q70="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q70:OperationResult" />
        <xs:element xmlns:q71="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="VersionId" nillable="true" type="q71:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**EntityId**: Specifies the GUID of the entity.

**MemberId**: Specifies the MemberIdentifier of the member whose annotations were retrieved.

**ModelId**: Specifies the GUID of the model.

**OperationResult**: Specifies the OperationResult complex type.

**VersionId**: Specifies the GUID of the model version.

### 3.1.4.12 EntityMemberAttributesGet

The **EntityMemberAttributesGet** operation retrieves a specified set of attribute values from a specific list of members. This operation is useful for retrieving the file content from file attributes; EntityMembersGet does not return these contents.

The following is the WSDL definition of the **EntityMemberAttributesGet** operation.

```
    <wsdl:operation name="EntityMemberAttributesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAttributesGet" name="EntityMemberAttributesGetRequest"
message="tns:EntityMemberAttributesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAttributesGetResponse" name="EntityMemberAttributesGetResponse"
message="tns:EntityMemberAttributesGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.12.1 Messages

The following WSDL message definitions are specific to the **EntityMemberAttributesGet** operation.

##### 3.1.4.12.1.1 EntityMemberAttributesGetRequest

The **EntityMemberAttributesGetRequest** message contains the **EntityMemberAttributesGetRequest** element.



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#### 3.1.4.12.1.2 EntityMemberAttributesGetResponse

The **EntityMemberAttributesGetResponse** message contains the **EntityMemberAttributesGetResponse** element.

### 3.1.4.12.2 Elements

The following XML schema element definitions are specific to the **EntityMemberAttributesGet** operation.

#### 3.1.4.12.2.1 EntityMemberAttributesGetRequest

The **EntityMemberAttributesGetRequest** element is a request that may take an EntityMembers complex type.

The following is the XML schema definition of the **EntityMemberAttributesGetRequest** element.

```
  <xs:element name="EntityMemberAttributesGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityMembers" nillable="true" type="q5:EntityMembers" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.12.2.2 EntityMemberAttributesGetResponse

The **EntityMemberAttributesGetResponse** element is a response that returns NULL or one of the following complex types:

- EntityMembers
- OperationResult

The following is the XML schema definition of the **EntityMemberAttributesGetResponse** element.

```
  <xs:element name="EntityMemberAttributesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q6="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityMembers" nillable="true" type="q6:EntityMembers" />
        <xs:element xmlns:q7="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q7:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

## 3.1.4.13 EntityMemberKeyLookup

The **EntityMemberKeyLookup** operation looks up either a member code or an internal ID based on the other member code or internal ID and the provided context. This operation SHOULD NOT be used.



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The following is the WSDL definition of the **EntityMemberKeyLookup** operation.

```
    <wsdl:operation name="EntityMemberKeyLookup">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberKeyLookup" name="EntityMemberKeyGetRequest" message="tns:EntityMemberKeyGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberKeyLookupResponse" name="EntityMemberKeyGetResponse"
message="tns:EntityMemberKeyGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.13.1 Messages

The following WSDL message definitions are specific to the **EntityMemberKeyLookup** operation.

##### 3.1.4.13.1.1 EntityMemberKeyGetRequest

The **EntityMemberKeyGetRequest** message contains the **EntityMemberKeyGetRequest** element.

##### 3.1.4.13.1.2 EntityMemberKeyGetResponse

The **EntityMemberKeyGetResponse** message contains the **EntityMemberKeyGetResponse** element.

#### 3.1.4.13.2 Elements

The following XML schema element definitions are specific to the **EntityMemberKeyLookup** operation.

##### 3.1.4.13.2.1 EntityMemberKeyGetRequest

The **EntityMemberKeyGetRequest** element specifies the details of what is requested.

The following is the XML schema definition of the **EntityMemberKeyGetRequest** element.

```
  <xs:element name="EntityMemberKeyGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q76="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityId" nillable="true" type="q76:Identifier" />
        <xs:element
xmlns:q77="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="LookupType" type="q77:MemberKeyLookupType" />
        <xs:element xmlns:q78="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberKeys" nillable="true" type="q78:ArrayOfMemberKey" />
        <xs:element xmlns:q79="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberType" type="q79:MemberType" />
        <xs:element xmlns:q80="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelId" nillable="true" type="q80:Identifier" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q81="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="VersionId" nillable="true" type="q81:Identifier" />
      </xs:sequence>
```



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

**EntityId**: Specifies the GUID or the exact name of the entity.

**LookupType**: Specifies the lookup type by using the MemberKeyLookupType simple type.

**MemberKeys**: Specifies a collection of member keys, either code or internal ID, by using the ArrayOfMemberKey complex type.

**MemberType**: Specifies the MemberType.

**ModelId**: Specifies the GUID or the exact name of the model.

**VersionId**: Specifies the GUID or the exact name of the model version.

#### 3.1.4.13.2.2 EntityMemberKeyGetResponse

The **EntityMemberKeyGetResponse** element holds the response details.

The following is the XML schema definition of the **EntityMemberKeyGetResponse** element.

```
  <xs:element name="EntityMemberKeyGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q82="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MemberKeys" nillable="true" type="q82:ArrayOfMemberKey" />
        <xs:element xmlns:q83="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q83:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**MemberKeys**: Specifies a collection of member keys that contain member codes (if the internal ID is provided) or the internal ID (if member codes are provided) by using the ArrayOfMemberKey complex type.

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.13.3 Complex Types

The following XML schema complex type definitions are specific to the **EntityMemberKeyLookup** operation.

#### 3.1.4.13.3.1 MemberKey

The **MemberKey** complex type holds the member code, the internal ID, or both for a member.

The following is the XML schema definition of the **MemberKey** complex type.

```
<xs:complexType name="MemberKey">
  <xs:sequence>
    <xs:element minOccurs="0" name="MemberCode" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="MemberId" type="xs:int" />
  </xs:sequence>
```



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

**MemberCode**: Specifies the code value of a member.

**MemberId**: Specifies the internal ID of member.

#### 3.1.4.13.3.2 ArrayOfMemberKey

The **ArrayOfMemberKey** complex type represents a collection of entity member keys.

The following is the XML schema definition of the **ArrayOfMemberKey** complex type.

```
    <xs:complexType name="ArrayOfMemberKey">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MemberKey" nillable="true"
type="tns:MemberKey" />
      </xs:sequence>
    </xs:complexType>
```

**MemberKey**: Specifies the member code and/or internal ID as specified by the MemberKey complex type.

### 3.1.4.14 EntityMembersCopy

The **EntityMembersCopy** operation copies members and their associated data (for example, attributes and hierarchy parents) to new members with new member codes.

A members list is used for input. This list includes source and target member codes. Each item in the list includes a source (code of an existing member) and a target (code of a new member).

Source members are matched by model, version, entity, and member code. GUIDs and/or exact names are used to identify metadata component context.

Each source member that is not found results in an error in the **EntityMembersCopyResponse**. Each target code that already exists within the entity and version results in an error. This occurs because codes MUST be unique. All listed members are attempted regardless of individual record errors. The output includes a list of the members that were successfully copied.

To use this operation, users MUST have permission to create new members and to update the source members; when this permission is not granted, an error is returned in the **EntityMembersCopyResponse**. For general information about members, see section 2.2.4.96. Any attributes and hierarchy parents that are associated with the source member for which update permission is granted are assigned to the target member.

Any hierarchy member permission assignments that are directly attached to source members (not inherited) are copied to target members.

The following is the WSDL definition of the **EntityMembersCopy** operation.

```
    <wsdl:operation name="EntityMembersCopy">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCopy" name="EntityMembersCopyRequest" message="tns:EntityMembersCopyRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
```



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```
yMembersCopyResponse" name="EntityMembersCopyResponse"
message="tns:EntityMembersCopyResponse" />
    </wsdl:operation>
```

#### 3.1.4.14.1 Messages

The following WSDL message definitions are specific to the **EntityMembersCopy** operation.

##### 3.1.4.14.1.1 EntityMembersCopyRequest

The **EntityMembersCopyRequest** message contains the **EntityMembersCopyRequest** element.

##### 3.1.4.14.1.2 EntityMembersCopyResponse

The **EntityMembersCopyResponse** message contains the **EntityMembersCopyResponse** element.

#### 3.1.4.14.2 Elements

The following XML schema element definitions are specific to the **EntityMembersCopy** operation.

##### 3.1.4.14.2.1 EntityMembersCopyRequest

The **EntityMembersCopyRequest** element specifies the entity member or members to be copied in the **EntityMembersCopyCriteria** complex type.

The following is the XML schema definition of the **EntityMembersCopyRequest** element.

```
  <xs:element name="EntityMembersCopyRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q21="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityMembersCopyCriteria" nillable="true" type="q21:EntityMembersCopyCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.14.2.2 EntityMembersCopyResponse

The **EntityMembersCopyResponse** element contains the results of the operation in the OperationResult complex type.

The following is the XML schema definition of the **EntityMembersCopyResponse** element.

```
  <xs:element name="EntityMembersCopyResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q22="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q22:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```



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#### 3.1.4.14.3 Complex Types

The following XML schema complex type definitions are specific to the **EntityMembersCopy** operation.

##### 3.1.4.14.3.1 EntityMembersCopyCriteria

The **EntityMembersCopyCriteria** request complex type specifies the member criteria for the copy operations.

The following is the XML schema definition of the **EntityMembersCopyCriteria** complex type.

```
  <xs:complexType name="EntityMembersCopyCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="Members" nillable="true"
type="tns:ArrayOfMemberSourceTarget" />
      <xs:element name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element name="VersionId" nillable="true" type="tns:Identifier" />
      <xs:element name="EntityId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**Members**: Specifies the ArrayOfMemberSourceTarget complex type that contains the members to be copied.

**ModelId**: Specifies the GUID or the exact name of the model in the Identifier complex type.

**VersionId**: Specifies the GUID or the exact name of the version in the **Identifier** complex type.

**EntityId**: Specifies the GUID or the exact name of the entity in the **Identifier** complex type.

##### 3.1.4.14.3.2 ArrayOfMemberSourceTarget

The **ArrayOfMemberSourceTarget** complex type specifies a collection of MemberSourceTarget complex types.

The following is the XML schema definition of the **ArrayOfMemberSourceTarget** complex type.

```
  <xs:complexType name="ArrayOfMemberSourceTarget">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="MemberSourceTarget"
nillable="true" type="tns:MemberSourceTarget" />
    </xs:sequence>
  </xs:complexType>
```

**MemberSourceTarget**: Specifies the **MemberSourceTarget** complex type that contains members to be copied.

##### 3.1.4.14.3.3 MemberSourceTarget

The **MemberSourceTarget** complex type contains the member codes of the source and target members to be copied.

The following is the XML schema definition of the **MemberSourceTarget** complex type.



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

**SourceMemberCode**: Specifies the member code of the existing source member to copy.

**TargetMemberCode**: Specifies the member code of the new target member to be created by the copy operation.

### 3.1.4.15 EntityMembersCreate

The **EntityMembersCreate** operation creates one or more members within an entity. **EntityMembersCreate** operates synchronously, completing live transactions and responding with the results of those transactions.

The following is the WSDL definition of the **EntityMembersCreate** operation.

```
    <wsdl:operation name="EntityMembersCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCreate" name="EntityMembersCreateRequest" message="tns:EntityMembersCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCreateResponse" name="EntityMembersCreateResponse"
message="tns:EntityMembersCreateResponse" />
    </wsdl:operation>
```

#### 3.1.4.15.1 Messages

The following WSDL message definitions are specific to the **EntityMembersCreate** operation.

##### 3.1.4.15.1.1 EntityMembersCreateRequest

The **EntityMembersCreateRequest** message contains the **EntityMembersCreateRequest** element.

##### 3.1.4.15.1.2 EntityMembersCreateResponse

The **EntityMembersCreateResponse** message contains the **EntityMembersCreateResponse** element.

#### 3.1.4.15.2 Elements

The following XML schema element definitions are specific to the **EntityMembersCreate** operation.

##### 3.1.4.15.2.1 EntityMembersCreateRequest

The **EntityMembersCreateRequest** element specifies the entity member or members to be created in the EntityMembers complex type.



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The following is the XML schema definition of the **EntityMembersCreateRequest** element.

```
  <xs:element name="EntityMembersCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q15="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Members" nillable="true" type="q15:EntityMembers" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.15.2.2 EntityMembersCreateResponse

The **EntityMembersCreateResponse** element contains the results of the operation in the OperationResult complex type.

The following is the XML schema definition of the **EntityMembersCreateResponse** element.

```
  <xs:element name="EntityMembersCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q590="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="CreatedMembers" nillable="true" type="q590:ArrayOfMemberIdentifier" />
        <xs:element xmlns:q16="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q16:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.16 EntityMembersDelete

The **EntityMembersDelete** operation deletes (deactivates) one or more members within an entity.

The following is the WSDL definition of the **EntityMembersDelete** operation.

```
    <wsdl:operation name="EntityMembersDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersDelete" name="EntityMembersDeleteRequest" message="tns:EntityMembersDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersDeleteResponse" name="EntityMembersDeleteResponse"
message="tns:EntityMembersDeleteResponse" />
    </wsdl:operation>
```

#### 3.1.4.16.1 Messages

The following XML schema message definitions are specific to the **EntityMembersDeleteRequest** operation.



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#### 3.1.4.16.1.1 EntityMembersDeleteRequest

The **EntityMembersDeleteRequest** request message contains the **EntityMembersDeleteRequest** element.

#### 3.1.4.16.1.2 EntityMembersDeleteResponse

The **EntityMembersDeleteResponse** response message contains the **EntityMembersDeleteResponse** element.

### 3.1.4.16.2 Elements

The following XML schema element definitions are specific to the **EntityMembersDelete** operation.

#### 3.1.4.16.2.1 EntityMembersDeleteRequest

The **EntityMembersDeleteRequest** request element provides an EntityMembers complex type.

The following is the XML schema definition of the **EntityMembersDeleteRequest** element.

```
  <xs:element name="EntityMembersDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q17="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Members" nillable="true" type="q17:EntityMembers" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.16.2.2 EntityMembersDeleteResponse

The **EntityMembersDeleteResponse** response element returns an OperationResult complex type.

The following is the XML schema definition of the **EntityMembersDeleteResponse** element.

```
  <xs:element name="EntityMembersDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q18="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q18:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

## 3.1.4.17 EntityMembersGet

The **EntityMembersGet** operation retrieves a filtered set of members and their data from an entity. This operation is specialized to tabular retrieval of members and their attributes, and it is optimized for retrieving small batches of members within a single entity. This operation does not return file attribute file contents.

The **EntityMembersGet** operation is used to return member and hierarchy data as specified. This operation is optimized for retrieval of a select subset of members within an entity. This operation is



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used within the context of a single entity and single version. Results include member attributes and hierarchy parents from associated hierarchies.

The following is the WSDL of the **EntityMembersGet** operation.

```
    <wsdl:operation name="EntityMembersGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersGet" name="EntityMembersGetRequest" message="tns:EntityMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersGetResponse" name="EntityMembersGetResponse" message="tns:EntityMembersGetResponse"
/>
    </wsdl:operation>
```

#### 3.1.4.17.1 Messages

The following WSDL message definitions are specific to the **EntityMembersGet** operation.

##### 3.1.4.17.1.1 EntityMembersGetRequest

The **EntityMembersGetRequest** message contains the **EntityMembersGetRequest** element.

##### 3.1.4.17.1.2 EntityMembersGetResponse

The **EntityMembersGetResponse** message contains the **EntityMembersGetResponse** element.

#### 3.1.4.17.2 Elements

The following XML schema element definitions are specific to the **EntityMembersGet** operation.

##### 3.1.4.17.2.1 EntityMembersGetRequest

The **EntityMembersGetRequest** element specifies the criteria in the EntityMembersGetCriteria complex type for the retrieval of entity members and their attributes.

The following is the XML schema definition of the **EntityMembersGetRequest** element.

```
  <xs:element name="EntityMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q1="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="MembersGetCriteria" nillable="true" type="q1:EntityMembersGetCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.17.2.2 EntityMembersGetResponse

The **EntityMembersGetResponse** element returns a response that contains one or more of the following complex types:



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- EntityMembers
- EntityMembersInformation
- OperationResult

The following is the XML schema definition of the **EntityMembersGetResponse** element.

```
  <xs:element name="EntityMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q2="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityMembers" nillable="true" type="q2:EntityMembers" />
        <xs:element xmlns:q3="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="EntityMembersInformation" nillable="true" type="q3:EntityMembersInformation" />
        <xs:element xmlns:q4="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q4:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.17.3 Complex Types

The following XML schema complex type definitions are specific to the **EntityMembersGet** operation.

#### 3.1.4.17.3.1 EntityMembersGetCriteria

The **EntityMembersGetCriteria** request complex type specifies the EntityMembers criteria for the operations result set.

The following is the XML schema definition of the **EntityMembersGetCriteria** complex type.

```
  <xs:complexType name="EntityMembersGetCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeGroupId" nillable="true" type="tns:Identifier"
/>
      <xs:element minOccurs="0" name="Attributes" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="DisplayType" nillable="true" type="q1:DisplayType" />
      <xs:element name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="HierarchyType" type="q2:HierarchyType" />
      <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" name="MemberReturnOption" type="q3:MemberReturnOption" />
      <xs:element name="MemberType" nillable="true" type="tns:MemberType" />
      <xs:element name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element name="PageNumber" type="xs:int" />
      <xs:element name="PageSize" type="xs:int" />
      <xs:element minOccurs="0" name="ParentEntityId" nillable="true" type="tns:Identifier"
/>
      <xs:element minOccurs="0" name="ParentMember" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="SearchTerm" nillable="true" type="xs:string" />
```



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```
      <xs:element minOccurs="0" name="SortColumnId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="SortDirection" type="q4:SortDirection" />
      <xs:element name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**AttributeGroupId**: Specifies an attribute group as a method of identifying a desired column set. This value is optional.

**Attributes**: Specifies a list of desired attribute columns by GUID or name. If the AttributeGroup complex type is specified, only columns within the attribute group may be specified. This value is optional.

**EntityId**: Specifies the GUID or the exact name of the entity.

**HierarchyId**: Specifies the GUID or the exact name of the hierarchy.

**HierarchyType**: Specifies the type of hierarchy: explicit, derived, or collection.

**MemberReturnOption**: Specifies "Data", "Counts", or "DataAndCounts". The operation response includes member data only, member counts only, or both the data and the counts as specified.

**MemberType**: Specifies leaf, parent, or collection members. This value is optional if **EntityId** is specified.

**ModelId**: Specifies the GUID or the exact name of the model.

**PageNumber**: Specifies the page number to retrieve based on the **PageSize** value. The default value is 1.

**PageSize**: Specifies the number of records to include in a single retrieval.

**ParentEntityId**: Specifies the GUID or the exact name of the parent member's entity. This value is required for derived hierarchies only and is ignored for explicit hierarchies and collections.

**ParentMember**: Specifies the code of the parent member.

**SearchTerm**: Specifies a WHERE clause search criteria to filter records. This value is optional.

**SortColumnId**: Specifies the column on which the returned members are sorted. This value is optional.

**SortDirection**: Specifies an ascending or descending sort direction. This value is optional.

**VersionId**: Specifies the GUID or the exact name of the version.

#### 3.1.4.17.3.2 EntityMembersInformation

The **EntityMembersInformation** response complex type is returned to describe the EntityMembers result set that is returned in the same response.

The following is the XML schema definition of the **EntityMembersInformation** complex type.

```
<xs:complexType name="EntityMembersInformation">
  <xs:sequence>
```



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```
      <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
      <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
      <xs:element minOccurs="0" name="TotalMemberCount" type="xs:int" />
      <xs:element minOccurs="0" name="TotalPages" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
```

**MemberCount**: Specifies the count of members based on the applied search term.

**PageNumber**: Specifies the number of the page that is provided.

**TotalMemberCount**: Specifies the total number of visible records based on security and hierarchy parent filter.

**TotalPages**: Specifies the total number of pages provided.

### 3.1.4.18 EntityMembersMerge

The **EntityMembersMerge** operation creates and/or updates members without regard to whether the member already exists.

If the member already exists (matched by context and member code), a member update is performed. If the member does not already exist, it is created. **EntityMembersMerge** is otherwise similar to EntityMembersCreate when creating members and EntityMembersUpdate when updating members.

The following is the WSDL definition of the **EntityMembersMerge** operation.

```
    <wsdl:operation name="EntityMembersMerge">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersMerge" name="EntityMembersMergeRequest" message="tns:EntityMembersMergeRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersMergeResponse" name="EntityMembersMergeResponse"
message="tns:EntityMembersMergeResponse" />
    </wsdl:operation>
```

#### 3.1.4.18.1 Messages

The following WSDL message definitions are specific to the **EntityMembersMerge** operation.

##### 3.1.4.18.1.1 EntityMembersMergeRequest

The **EntityMembersMergeRequest** message contains the **EntityMembersMergeRequest** element.

##### 3.1.4.18.1.2 EntityMembersMergeResponse

The **EntityMembersMergeResponse** message contains the **EntityMembersMergeResponse** element.



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### 3.1.4.18.2 Elements

The following XML schema element definitions are specific to the **EntityMembersMerge** operation.

#### 3.1.4.18.2.1 EntityMembersMergeRequest

The **EntityMembersMergeRequest** element specifies the entity member or members to be created or updated.

The following is the XML schema definition of the **EntityMembersMergeRequest** element.

```
  <xs:element name="EntityMembersMergeRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q23="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Members" nillable="true" type="q23:EntityMembers" />
        <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Members**: Specifies the EntityMembers complex type.

**ReturnCreatedIdentifiers**: Specifies a **Boolean** that, when set to true, populates the EntityMembersMerge property in the response message.

#### 3.1.4.18.2.2 EntityMembersMergeResponse

The following is the XML schema definition of the **EntityMembersMergeResponse** element.

```
  <xs:element name="EntityMembersMergeResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q591="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="CreatedMembers" nillable="true" type="q591:ArrayOfMemberIdentifier" />
        <xs:element xmlns:q24="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q24:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.19 EntityMembersUpdate

The **EntityMembersUpdate** operation updates one or more existing members within an entity. Members are matched by model, version, entity, and member code.

**EntityMembersUpdate** operates synchronously, completing live transactions and responding with the results of those transactions. Alternatively, ModelMembersBulkUpdate may be used to process asynchronous updates.

**EntityMembersUpdate** can move members in a hierarchy based on parents or siblings. Note that the parent domain controller contains a relationship type that can be a parent or sibling.

The following is the WSDL definition of the **EntityMembersUpdate** operation.



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```
    <wsdl:operation name="EntityMembersUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersUpdate" name="EntityMembersUpdateRequest" message="tns:EntityMembersUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersUpdateResponse" name="EntityMembersUpdateResponse"
message="tns:EntityMembersUpdateResponse" />
    </wsdl:operation>
```

#### 3.1.4.19.1 Messages

The following WSDL message definitions are specific to the **EntityMembersUpdate** operation.

##### 3.1.4.19.1.1 EntityMembersUpdateRequest

The **EntityMembersUpdateRequest** message contains the **EntityMembersUpdateRequest** element.

##### 3.1.4.19.1.2 EntityMembersUpdateResponse

The **EntityMembersUpdateResponse** message contains the **EntityMembersUpdateResponse** element.

#### 3.1.4.19.2 Elements

The following XML schema element definitions are specific to the **EntityMembersUpdate** operation.

##### 3.1.4.19.2.1 EntityMembersUpdateRequest

The **EntityMembersUpdateRequest** element specifies the entity member or members to be updated in the EntityMembers complex type.

The following is the XML schema definition of the **EntityMembersUpdateRequest** element.

```
  <xs:element name="EntityMembersUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q19="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Members" nillable="true" type="q19:EntityMembers" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.19.2.2 EntityMembersUpdateResponse

The **EntityMembersUpdateResponse** element contains the results of the operation in the OperationResult complex type.

The following is the XML schema definition of the **EntityMembersUpdateResponse** element.



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```
  <xs:element name="EntityMembersUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q20="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q20:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.20 ExportViewCreate

The **ExportViewCreate** operation generates or regenerates a desired subscription view based on a specified configuration and view name.

The following is the WSDL definition of the **ExportViewCreate** operation.

```
    <wsdl:operation name="ExportViewCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewCreate" name="ExportViewCreateRequest" message="tns:ExportViewCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewCreateResponse" name="ExportViewCreateResponse" message="tns:ExportViewCreateResponse"
/>
    </wsdl:operation>
```

#### 3.1.4.20.1 Messages

The following WSDL message definitions are specific to the **ExportViewCreate** operation.

##### 3.1.4.20.1.1 ExportViewCreateRequest

The **ExportViewCreateRequest** message contains the **ExportViewCreateRequest** element.

##### 3.1.4.20.1.2 ExportViewCreateResponse

The **ExportViewCreateResponse** message contains the **ExportViewCreateResponse** element.

#### 3.1.4.20.2 Elements

The following XML schema element definitions are specific to the **ExportViewCreate** operation.

##### 3.1.4.20.2.1 ExportViewCreateRequest

The **ExportViewCreateRequest** element specifies the details of what is requested.

The following is the XML schema definition of the **ExportViewCreateRequest** element.

```
  <xs:element name="ExportViewCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q87="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ExportView" nillable="true" type="q87:ExportView" />
```



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

**ExportView**: Specifies the export view by using the ExportView complex type.

**ServiceConnectionName**: Specifies the service connection name.

#### 3.1.4.20.2.2 ExportViewCreateResponse

The **ExportViewCreateResponse** element holds the details of the response.

The following is the XML schema definition of the **ExportViewCreateResponse** element.

```
  <xs:element name="ExportViewCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q88="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q88:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.21 ExportViewDelete

The **ExportViewDelete** operation removes an existing export view from the master data database.

The following is the WSDL definition of the **ExportViewDelete** operation.

```
    <wsdl:operation name="ExportViewDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewDelete" name="ExportViewDeleteRequest" message="tns:ExportViewDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewDeleteResponse" name="ExportViewDeleteResponse" message="tns:ExportViewDeleteResponse"
/>
    </wsdl:operation>
```

#### 3.1.4.21.1 Messages

The following WSDL message definitions are specific to the **ExportViewDelete** operation.

##### 3.1.4.21.1.1 ExportViewDeleteRequest

The **ExportViewDeleteRequest** message contains the **ExportViewDeleteRequest** element.



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#### 3.1.4.21.1.2 ExportViewDeleteResponse

The **ExportViewDeleteResponse** message contains the **ExportViewDeleteResponse** element.

### 3.1.4.21.2 Elements

The following XML schema element definitions are specific to the **ExportViewDelete** operation.

#### 3.1.4.21.2.1 ExportViewDeleteRequest

The **ExportViewDeleteRequest** element specifies the details of the export view delete request.

The following is the XML schema definition of the **ExportViewDeleteRequest** element.

```
  <xs:element name="ExportViewDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q91="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Identifier" nillable="true" type="q91:Identifier" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Identifier**: Specifies the internal identifier for the export view to delete.

**ServiceConnectionName**: Specifies the service connection name.

#### 3.1.4.21.2.2 ExportViewDeleteResponse

The **ExportViewDeleteResponse** element holds the details of the response.

The following is the XML schema definition of the **ExportViewDeleteResponse** element.

```
  <xs:element name="ExportViewDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q92="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q92:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

## 3.1.4.22 ExportViewListGet

The **ExportViewListGet** operation retrieves a list of existing export views.

The following is the WSDL definition of the **ExportViewListGet** operation.

```
    <wsdl:operation name="ExportViewListGet">
```



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```
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewListGet" name="ExportViewListGetRequest" message="tns:ExportViewListGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewListGetResponse" name="ExportViewListGetResponse"
message="tns:ExportViewListGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.22.1 Messages

The following WSDL message definitions are specific to the **ExportViewListGet** operation.

##### 3.1.4.22.1.1 ExportViewListGetRequest

The **ExportViewListGetRequest** message contains the **ExportViewListGetRequest** element.

##### 3.1.4.22.1.2 ExportViewListGetResponse

The **ExportViewListGetResponse** message contains the **ExportViewListGetResponse** element.

#### 3.1.4.22.2 Elements

The following XML schema element definitions are specific to the **ExportViewListGet** operation.

##### 3.1.4.22.2.1 ExportViewListGetRequest

The **ExportViewListGetRequest** element specifies the details of the request to get the export view list.

The following is the XML schema definition of the **ExportViewListGetRequest** element.

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

**ServiceConnectionName**: Specifies the service connection name.

##### 3.1.4.22.2.2 ExportViewListGetResponse

The **ExportViewListGetResponse** element holds the details of the response.

The following is the XML schema definition of the **ExportViewListGetResponse** element.

```
  <xs:element name="ExportViewListGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q93="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ExportViews" nillable="true" type="q93:ArrayOfExportView" />
```



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```
        <xs:element xmlns:q94="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q94:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**ExportViews**: Specifies a collection of export views that are returned by using the ArrayOfExportView complex type.

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.23 ExportViewUpdate

The **ExportViewUpdate** operation updates a desired subscription view based on a specified configuration and view name.

The following is the WSDL definition of the **ExportViewUpdate** operation.

```
    <wsdl:operation name="ExportViewUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewUpdate" name="ExportViewUpdateRequest" message="tns:ExportViewUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewUpdateResponse" name="ExportViewUpdateResponse" message="tns:ExportViewUpdateResponse"
/>
    </wsdl:operation>
```

#### 3.1.4.23.1 Messages

The following WSDL message definitions are specific to the **ExportViewUpdate** operation.

##### 3.1.4.23.1.1 ExportViewUpdateRequest

The **ExportViewUpdateRequest** message contains the **ExportViewUpdateRequest** element.

##### 3.1.4.23.1.2 ExportViewUpdateResponse

The **ExportViewUpdateResponse** message contains the **ExportViewUpdateResponse** element.

#### 3.1.4.23.2 Elements

The following XML schema element definitions are specific to the **ExportViewUpdate** operation.

##### 3.1.4.23.2.1 ExportViewUpdateRequest

The **ExportViewUpdateRequest** element specifies the details of the export view update request.

The following is the XML schema definition of the **ExportViewUpdateRequest** element.

```
<xs:element name="ExportViewUpdateRequest">
  <xs:complexType>
    <xs:sequence>
```



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```
        <xs:element xmlns:q89="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ExportView" nillable="true" type="q89:ExportView" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**ExportView**: Specifies the export view by using the ExportView complex type.

**ServiceConnectionName**: Specifies the service connection name.

#### 3.1.4.23.2.2 ExportViewUpdateResponse

The **ExportViewUpdateResponse** element holds the details of the response.

The following is the XML schema definition of the **ExportViewUpdateResponse** element.

```
  <xs:element name="ExportViewUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q90="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q90:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.24 HierarchyMembersGet

The **HierarchyMembersGet** operation retrieves all hierarchy members, the immediate children of a specified hierarchy parent, or all descendants of a specified hierarchy parent.

This operation is optimized for hierarchy relationship retrieval and for walking the hierarchy path. **HierarchyMembersGet** works within the context of a single hierarchy and a single version.

The following is the WSDL definition of the **HierarchyMembersGet** operation.

```
    <wsdl:operation name="HierarchyMembersGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hiera
rchyMembersGet" name="HierarchyMembersGetRequest" message="tns:HierarchyMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hiera
rchyMembersGetResponse" name="HierarchyMembersGetResponse"
message="tns:HierarchyMembersGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.24.1 Messages

The following WSDL message definitions are specific to the **HierarchyMembersGet** operation.



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#### 3.1.4.24.1.1 HierarchyMembersGetRequest

The **HierarchyMembersGetRequest** message contains the **HierarchyMembersGetRequest** element.

#### 3.1.4.24.1.2 HierarchyMembersGetResponse

The **HierarchyMembersGetResponse** message contains the **HierarchyMembersGetResponse** element.

### 3.1.4.24.2 Elements

The following XML schema element definitions are specific to the **HierarchyMembersGet** operation.

#### 3.1.4.24.2.1 HierarchyMembersGetRequest

The **HierarchyMembersGetRequest** element uses the HierarchyMembersGetCriteria complex type to specify inputs to the request.

The following is the XML schema definition of the **HierarchyMembersGetRequest** element.

```
  <xs:element name="HierarchyMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q8="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="HierarchyMembersGetCriteria" nillable="true" type="q8:HierarchyMembersGetCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.24.2.2 HierarchyMembersGetResponse

The **HierarchyMembersGetResponse** element is a response that returns NULL or one of the following complex types:

- HierarchyMembers
- OperationResult

The following is the XML schema definition of the **HierarchyMembersGetResponse** element.

```
  <xs:element name="HierarchyMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="HierarchyMembers" nillable="true" type="q9:HierarchyMembers" />
        <xs:element xmlns:q10="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q10:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```



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#### 3.1.4.24.3 Complex Types

The following XML schema complex type definitions are specific to the **HierarchyMembersGet** operation.

##### 3.1.4.24.3.1 HierarchyMembersGetCriteria

The **HierarchyMembersGetCriteria** complex type specifies the hierarchy criteria for the result set that is returned in HierarchyMembersGet.

The following is the XML schema definition of the **HierarchyMembersGetCriteria** complex type.

```
  <xs:complexType name="HierarchyMembersGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q560="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q560:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Ancestors" type="xs:boolean" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q560:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyType" type="q560:HierarchyType" />
          <xs:element minOccurs="0" name="MemberType" type="xs:int" />
          <xs:element minOccurs="0" name="ParentEntityId" nillable="true"
type="q560:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentMember" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="RowLimit" type="xs:int" />
          <xs:element minOccurs="0" name="SearchTerm" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="UserId" nillable="true" type="q560:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="ModelId" nillable="true" type="q560:Identifier" />
          <xs:element name="VersionId" nillable="true" type="q560:Identifier" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```



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**Ancestors**: Specifies an optional value that retrieves the ancestors of a member if set to "true". If "false", ancestors of a member are not retrieved.

**HierarchyId**: Specifies the GUID or the exact name of the hierarchy.

**HierarchyType**: Specifies the type of hierarchy: explicit, derived, or collection.

**MemberType**: Specifies whether the type of members to return is consolidated member or leaf member.

**ModelId**: Specifies the GUID or the exact name of the model.

**ParentEntityId**: Specifies the GUID or the exact name of the parent member's entity. This value is required for derived hierarchies only and is ignored for explicit hierarchies and collections.

**ParentMember**: Specifies the code of the parent member.

**RowLimit**: Specifies the value to limit the number of child rows returned. This value defaults to the system setting for **HierarchyChildNodeLimit** when it is not specified in the request. This value is optional.

**SearchTerm**: Specifies a string to search for in member codes and in names. This value is optional.

**UserId**: Specifies the GUID or the exact name of the user.

**VersionId**: Specifies the GUID or the exact name of the version.

### 3.1.4.24.3.2 HierarchyMembers

The **HierarchyMembers** complex type response is returned to describe a hierarchy and its members in the result set that is returned in the response.

The following is the XML schema definition of the **HierarchyMembers** complex type.

```
  <xs:complexType name="HierarchyMembers">
    <xs:sequence>
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContracts
" minOccurs="0" name="HierarchyType" type="q9:HierarchyType" />
      <xs:element minOccurs="0" name="Members" nillable="true" type="tns:ArrayOfParentChild"
/>
      <xs:element name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**EntityId**: Specifies the Identifier for the entity that contains the GUID, name, and internal ID.

**HierarchyId**: Specifies the **Identifier** for the hierarchy that contains the GUID, name, and internal ID.

**HierarchyType**: Specifies the HierarchyType that identifies the type of hierarchy construct.

**Members**: Specifies the ArrayOfParentChild that contains the hierarchy members and parent-child relationships.



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**ModelId**: Specifies the **Identifier** for the model that contains the GUID, name, and internal ID.

**VersionId**: Specifies the **Identifier** for the version that contains the GUID, name, and internal ID.

### 3.1.4.25 MetadataClone

The **MetadataClone** operation creates a copy of a metadata item that is linked to the original via the shared GUID. This operation is similar to MetadataCreate except as specified here.

The **MetadataClone** operation requires both the GUID and the name of new items in the request. The GUID is inserted rather than generated. If the request contains a GUID that matches an existing object in the hub of the same type, that object is updated.

The identifiers of each new item MUST include the GUID and the name. The name MUST NOT exist within the specified context for an item with another GUID.

The following is the WSDL definition of the **MetadataClone** operation.

```
    <wsdl:operation name="MetadataClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataClone" name="MetadataCloneRequest" message="tns:MetadataCloneRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCloneResponse" name="MetadataCloneResponse" message="tns:MetadataCloneResponse" />
    </wsdl:operation>
```

#### 3.1.4.25.1 Messages

The following WSDL message definitions are specific to the **MetadataClone** operation.

##### 3.1.4.25.1.1 MetadataCloneRequest

The **MetadataCloneRequest** request message contains the **MetadataCloneRequest** element.

##### 3.1.4.25.1.2 MetadataCloneResponse

The **MetadataCloneResponse** response message contains the **MetadataCloneResponse** element.

#### 3.1.4.25.2 Elements

The following XML schema element definitions are specific to the **MetadataClone** operation.

##### 3.1.4.25.2.1 MetadataCloneRequest

The **MetadataCloneRequest** request element MUST include a Metadata complex type that contains objects to be applied to the MDS repository.

The following is the XML schema definition of the **MetadataCloneRequest** element.

```
<xs:element name="MetadataCloneRequest">
  <xs:complexType>
    <xs:sequence>
```



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```
        <xs:element xmlns:q108="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Metadata" nillable="true" type="q108:Metadata" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Metadata**: Specifies a **Metadata** complex type.

#### 3.1.4.25.2.2 MetadataCloneResponse

The **MetadataCloneResponse** response element provides only standard operation results.

The following is the XML schema definition of the **MetadataCloneResponse** element.

```
  <xs:element name="MetadataCloneResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q109="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q109:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.26 MetadataCreate

The **MetadataCreate** operation creates new metadata objects. The operation creates new objects with the names that are provided and generates a new GUID for each new object.

GUIDs may be included in the request; however, they are ignored. For more information about assigning GUIDs to newly created objects, see section 3.1.4.25.

Names for new objects MUST be unique within their context. A name that conflicts with an existing name in the assigned context results in an error.

Newly created objects and their GUIDs are returned in the response if the value of **ReturnCreatedIdentifiers** is true.

For each of the following objects, a minimum context MUST be specified as listed in the following table.

| Object type | Minimum required context |
|---|---|
| Entity | Model |
| Attribute | **Model**, Entity, MemberType |
| Attribute group | **Model**, **Entity**, **MemberType** |
| Derived hierarchy | **Model** |
| Explicit hierarchy | **Model**, **Entity** |
| Version flag | **Model** |



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The following is the WSDL definition of the **MetadataCreate** operation.

```
    <wsdl:operation name="MetadataCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCreate" name="MetadataCreateRequest" message="tns:MetadataCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCreateResponse" name="MetadataCreateResponse" message="tns:MetadataCreateResponse" />
    </wsdl:operation>
```

#### 3.1.4.26.1 Messages

The following WSDL message definitions are specific to the **MetadataCreate** operation.

##### 3.1.4.26.1.1 MetadataCreateRequest

The **MetadataCreateRequest** request message contains the **MetadataCreateRequest** element.

##### 3.1.4.26.1.2 MetadataCreateResponse

The **MetadataCreateResponse** response message contains the **MetadataCreateResponse** element.

#### 3.1.4.26.2 Elements

The following XML schema element definitions are specific to the **MetadataCreate** operation.

##### 3.1.4.26.2.1 MetadataCreateRequest

The **MetadataCreateRequest** request element MUST include a Metadata complex type that contains objects to be created in the MDS repository.

The following is the XML schema definition of the **MetadataCreateRequest** element.

```
  <xs:element name="MetadataCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q110="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Metadata" nillable="true" type="q110:Metadata" />
        <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Metadata**: Specifies a **Metadata** complex type.

**ReturnCreatedIdentifiers**: Specifies a **Boolean** that, when set to true, populates the **MetadataCreate** property in the response message.



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#### 3.1.4.26.2.2 MetadataCreateResponse

The **MetadataCreateResponse** response element may echo the created metadata objects in a Metadata complex type if requested.

The following is the XML schema definition of the **MetadataCreateResponse** element.

```
<xs:element name="MetadataCreateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q111="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="MetadataCreated" nillable="true" type="q111:Metadata" />
      <xs:element xmlns:q112="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q112:OperationResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**MetadataCreated**: Specifies a **Metadata** complex type that contains the objects that are created, including their assigned GUIDs.

### 3.1.4.27 MetadataDelete

The **MetadataDelete** operation deletes metadata objects from an MDS repository. The request's **Metadata** element identifies objects to be deleted. One or more objects may be specified within a single request. The objects that are specified may be of the same or multiple object types. Objects are located by GUIDs only; names are ignored.

This operation issues individual Delete operations for each item. The failure or inability to delete one item does not affect the attempt to delete or the successful deletion of other items that are explicitly included in the request. Multiple calls for individual items may be implemented if alternative error-handling is required.

Deletions of some metadata components are cascading and automatically delete their child components. This occurs in cases in which the components are fully dependent on the deleted component and therefore have no further usefulness without the deleted component.

The following events occur during a model Delete operation:

- All related metadata subcomponents (such as entities, attributes, hierarchies, and versions) are deleted.
- Associated business rules are deleted.
- Associated model and hierarchy member security permissions are deleted.

The following events occur during an entity Delete operation:

- The related metadata sub-components (such as attributes, attribute groups, and explicit hierarchies) are deleted.
- Associated business rules are deleted.
- Associated model and hierarchy member security permissions (such as model security permissions assigned at the entity component or below) are deleted.



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An error occurs when an attempt is made to delete a component when one or more of the following conditions are true:

- An entity, attribute, or explicit hierarchy is deleted when used by a derived hierarchy.
- An attribute is deleted when a related business rule exists.
- An explicit hierarchy is deleted when a business rule references parents within the hierarchy.
- A version flag that is assigned to a version is deleted.

The following is the WSDL definition of the **MetadataDelete** operation.

```
    <wsdl:operation name="MetadataDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataDelete" name="MetadataDeleteRequest" message="tns:MetadataDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataDeleteResponse" name="MetadataDeleteResponse" message="tns:MetadataDeleteResponse" />
    </wsdl:operation>
```

#### 3.1.4.27.1 Messages

The following WSDL message definitions are specific to the **MetadataDelete** operation.

##### 3.1.4.27.1.1 MetadataDeleteRequest

The **MetadataDeleteRequest** request message contains the **MetadataDeleteRequest** element.

##### 3.1.4.27.1.2 MetadataDeleteResponse

The **MetadataDeleteResponse** response message contains the **MetadataDeleteResponse** element.

#### 3.1.4.27.2 Elements

The following XML schema element definitions are specific to the **MetadataDelete** operation.

##### 3.1.4.27.2.1 MetadataDeleteRequest

The **MetadataDeleteRequest** request element MUST include a Metadata complex type that contains objects to be deleted from the MDS repository. The object identifiers MUST include GUIDs.

The following is the XML schema definition of the **MetadataDeleteRequest** element.

```
  <xs:element name="MetadataDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q113="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Metadata" nillable="true" type="q113:Metadata" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
```



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

**Metadata**: Specifies a **Metadata** complex type.

#### 3.1.4.27.2.2 MetadataDeleteResponse

The **MetadataDeleteResponse** response element provides only standard operation results.

The following is the XML schema definition of the **MetadataDeleteResponse** element.

```
<xs:element name="MetadataDeleteResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q114="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q114:OperationResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

### 3.1.4.28 MetadataGet

The **MetadataGet** operation searches for and returns metadata from an MDS repository. The request is comprised of MetadataSearchCriteria and MetadataResultOptions. The response contains the results of the search (such as items that match the search criteria) and returns the metadata in a format and to a level of detail as specified in **MetadataResultOptions**.

About the search criteria:

- Various metadata components can be searched, including models, entities, attributes, derived hierarchies, hierarchies, member types, versions, and attribute groups. Each metadata component has a corresponding list of identifiers within the search criteria. To find objects by GUIDs and/or names, the identifiers are populated.
- The GUIDs and names from each list are combined with AND logic. For example, providing the criteria Model.ID=some-guid1 and the criteria Entity.ID=some-guid2 filters for objects where (Model.ID=some-guid1 AND Entity.ID=some-guid2).
- Providing multiple IDs or names within the same criteria list looks for all items in the set. For example, providing the criteria Model.ID(1)=some-guid1 and Model.ID(2)=some-guid2 and the criteria Entity.ID=some-guid3 filters for objects where (Model.ID IN [some-guid1, some-guid2] AND Entity.ID=some-guid3).

About the result options:

- For each property of the Metadata complex type, the **MetadataResultOptions** type specifies the inclusion and level of detail to return in the response.
- The information that is retrieved for each component is based on the following possible result type settings:
  - **None**: No data is returned for this component (this is the default value).
  - **Identifiers**: Identifiers (GUIDs and names) and other properties are retrieved for this component.



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- **Details**: Full data is populated for this component, including child objects.

The following is the WSDL definition of the **MetadataGet** operation.

```
<wsdl:operation name="MetadataGet">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataGet" name="MetadataGetRequest" message="tns:MetadataGetRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataGetResponse" name="MetadataGetResponse" message="tns:MetadataGetResponse"/>
</wsdl:operation>
```

#### 3.1.4.28.1 Messages

The following WSDL message definitions are specific to the **MetadataGet** operation.

##### 3.1.4.28.1.1 MetadataGetRequest

The **MetadataGetRequest** request message contains the **MetadataGetRequest** element.

##### 3.1.4.28.1.2 MetadataGetResponse

The **MetadataGetResponse** response message contains the **MetadataGetResponse** element.

#### 3.1.4.28.2 Elements

The following XML schema element definitions are specific to the **MetadataGet** operation.

##### 3.1.4.28.2.1 MetadataGetRequest

The **MetadataGetRequest** request element includes MetadataSearchCriteria and MetadataResultOptions to select the desired metadata objects at the desired level of detail.

The following is the XML schema definition of the **MetadataGetRequest** element.

```
  <xs:element name="MetadataGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q115="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="MetadataResultOptions" nillable="true" type="q115:MetadataResultOptions"
/>
        <xs:element xmlns:q116="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="MetadataSearchCriteria" nillable="true"
type="q116:MetadataSearchCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**MetadataSearchCriteria**: Specifies a **MetadataSearchCriteria** complex type.

**MetadataResultOptions**: Specifies a **MetadataResultOptions** complex type.



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#### 3.1.4.28.2.2 MetadataGetResponse

The **MetadataGetResponse** response element includes a Metadata type as a container for any requested metadata information.

The following is the XML schema definition of the **MetadataGetResponse** element.

```
  <xs:element name="MetadataGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q117="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Metadata" nillable="true" type="q117:Metadata" />
        <xs:element xmlns:q118="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q118:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Metadata**: Specifies a **Metadata** complex type.

### 3.1.4.28.3 Complex Types

The following XML schema complex type definitions are specific to the **MetadataGet** operation.

#### 3.1.4.28.3.1 MetadataSearchCriteria

The **MetadataSearchCriteria** complex type allows specification of identifiers that are associated with each type of metadata object.

The following is the XML schema definition of the **MetadataSearchCriteria** complex type.

```
  <xs:complexType name="MetadataSearchCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="Attributes" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="DerivedHierarchyLevels" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="Entities" nillable="true" type="tns:ArrayOfIdentifier"
/>
      <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="MemberTypes" nillable="true"
type="tns:ArrayOfMemberType" />
      <xs:element minOccurs="0" name="Models" nillable="true" type="tns:ArrayOfIdentifier" />
      <xs:element
xmlns:q47="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="SearchOption" type="q47:SearchOption" />
      <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="Versions" nillable="true" type="tns:ArrayOfIdentifier"
/>
    </xs:sequence>
  </xs:complexType>
```



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**Note** Each property is an array of identifiers.

#### 3.1.4.28.3.2 MetadataResultOptions

The **MetadataResultOptions** complex type allows specification of a ResultType that is associated with each type of metadata object.

The following is the XML schema definition of the **MetadataResultOptions** complex type.

```
<xs:complexType name="MetadataResultOptions">
  <xs:sequence>
    <xs:element minOccurs="0" name="AttributeGroups" type="tns:ResultType" />
    <xs:element minOccurs="0" name="Attributes" type="tns:ResultType" />
    <xs:element minOccurs="0" name="DerivedHierarchies" type="tns:ResultType" />
    <xs:element minOccurs="0" name="DerivedHierarchyLevels" type="tns:ResultType" />
    <xs:element minOccurs="0" name="Entities" type="tns:ResultType" />
    <xs:element minOccurs="0" name="ExplicitHierarchies" type="tns:ResultType" />
    <xs:element minOccurs="0" name="MemberTypes" type="tns:ResultType" />
    <xs:element minOccurs="0" name="Models" type="tns:ResultType" />
    <xs:element minOccurs="0" name="VersionFlags" type="tns:ResultType" />
    <xs:element minOccurs="0" name="Versions" type="tns:ResultType" />
  </xs:sequence>
</xs:complexType>
```

**Note** Each property is a **ResultType** complex type.

### 3.1.4.29 MetadataUpdate

The **MetadataUpdate** operation updates existing metadata objects within an MDS repository.

Items in the request are matched to the existing objects based on only the GUID. Like any other property, an object's name is updated if the name of the item in the request is different than in the MDS repository. Each GUID that is not found is returned as a separate error. Each object's update is attempted and individually committed regardless of the failure of other items.

Only one property of Metadata may be populated in the request message. An error is returned in the **MetadataUpdateResponse** if there is more than one. This eliminates the possibility that a request message contains conflicting information about the same object in different parts of the **Metadata** type.

The following is the WSDL definition of the **MetadataUpdate** operation.

```
<wsdl:operation name="MetadataUpdate">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataUpdate" name="MetadataUpdateRequest" message="tns:MetadataUpdateRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataUpdateResponse" name="MetadataUpdateResponse" message="tns:MetadataUpdateResponse"/>
</wsdl:operation>
```

#### 3.1.4.29.1 Messages

The following WSDL message definitions are specific to the **MetadataUpdate** operation.



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#### 3.1.4.29.1.1 MetadataUpdateRequest

The **MetadataUpdateRequest** request message contains the **MetadataUpdateRequest** element.

#### 3.1.4.29.1.2 MetadataUpdateResponse

The **MetadataUpdateResponse** response message contains the **MetadataUpdateResponse** element.

### 3.1.4.29.2 Elements

The following XML schema element definitions are specific to the **MetadataUpdate** operation.

#### 3.1.4.29.2.1 MetadataUpdateRequest

The **MetadataUpdateRequest** request element MUST include a Metadata complex type that contains objects to be updated in the MDS repository.

The following is the XML schema definition of the **MetadataUpdateRequest** element.

```
  <xs:element name="MetadataUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q119="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Metadata" nillable="true" type="q119:Metadata" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Metadata**: Specifies a **Metadata** complex type.

#### 3.1.4.29.2.2 MetadataUpdateResponse

The **MetadataUpdateResponse** response element provides only standard operation results.

The following is the XML schema definition of the **MetadataUpdateResponse** element.

```
  <xs:element name="MetadataUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q120="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q120:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

## 3.1.4.30 ModelMembersBulkDelete

The **ModelMembersBulkDelete** operation provides asynchronous batch deleting of members within a model. This operation is similar to EntityMembersDelete and has the same input/request format.

This bulk operation proceeds as follows:



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- All Delete operations are translated into staging batch records.
- Batch processing is initiated.
- The operation returns the batch IDs for the staging records, not the results of the deletion.

The following is the WSDL definition of the **ModelMembersBulkDelete** operation.

```
    <wsdl:operation name="ModelMembersBulkDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkDelete" name="ModelMembersBulkDeleteRequest"
message="tns:ModelMembersBulkDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkDeleteResponse" name="ModelMembersBulkDeleteResponse"
message="tns:ModelMembersBulkDeleteResponse" />
    </wsdl:operation>
```

#### 3.1.4.30.1 Messages

The following WSDL message definitions are specific to the **ModelMembersBulkDelete** operation.

##### 3.1.4.30.1.1 ModelMembersBulkDeleteRequest

The **ModelMembersBulkDeleteRequest** message contains the **ModelMembersBulkDeleteRequest** element.

##### 3.1.4.30.1.2 ModelMembersBulkDeleteResponse

The **ModelMembersBulkDeleteResponse** message contains the **ModelMembersBulkDeleteResponse** element.

#### 3.1.4.30.2 Elements

The following XML schema element definitions are specific to the **ModelMembersBulkDelete** operation.

##### 3.1.4.30.2.1 ModelMembersBulkDeleteRequest

The **ModelMembersBulkDeleteRequest** element MUST contain existing members from a single model to be deleted.

The following is the XML schema definition of the **ModelMembersBulkDeleteRequest** element.

```
  <xs:element name="ModelMembersBulkDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q25="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="1"
name="ModelMembers" nillable="true" type="q25:ArrayOfEntityMembers" />
        <xs:element minOccurs="1" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
```



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

#### 3.1.4.30.2.2 ModelMembersBulkDeleteResponse

The **ModelMembersBulkDeleteResponse** element returns one or more staging batch identifiers for the staging batches that were created to process the member deletes.

The following is the XML schema definition of the **ModelMembersBulkDeleteResponse** element.

```
<xs:element name="ModelMembersBulkDeleteResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q26="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="1"
name="OperationResult" nillable="true" type="q26:OperationResult" />
      <xs:element xmlns:q27="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="1"
name="StagingBatches" nillable="true" type="q27:ArrayOfIdentifier" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

### 3.1.4.31 ModelMembersBulkMerge

The **ModelMembersBulkMerge** operation provides asynchronous batch updating or creating of members within an entity. This operation is similar to EntityMembersMerge and has the same input/request format.

This bulk operation proceeds as follows:

- All data changes are translated into staging batch records, including member Create operations.
- Batch processing is initiated.
- The operation returns the batch IDs for the staging records, not the results of the Create or Update operation.

The following is the WSDL definition of the **ModelMembersBulkMerge** operation.

```
<wsdl:operation name="ModelMembersBulkMerge">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkMerge" name="ModelMembersBulkMergeRequest"
message="tns:ModelMembersBulkMergeRequest" />
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkMergeResponse" name="ModelMembersBulkMergeResponse"
message="tns:ModelMembersBulkMergeResponse" />
</wsdl:operation>
```

#### 3.1.4.31.1 Messages

The following WSDL message definitions are specific to the **ModelMembersBulkMerge** operation.



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#### 3.1.4.31.1.1 ModelMembersBulkMergeRequest

The **ModelMembersBulkMergeRequest** message contains the **ModelMembersBulkMergeRequest** element.

#### 3.1.4.31.1.2 ModelMembersBulkMergeResponse

The **ModelMembersBulkMergeResponse** message contains the **ModelMembersBulkMergeResponse** element.

### 3.1.4.31.2 Elements

The following XML schema element definitions are specific to the **ModelMembersBulkMerge** operation.

#### 3.1.4.31.2.1 ModelMembersBulkMergeRequest

The **ModelMembersBulkMergeRequest** element provides a collection of model member to be bulk merged into the MDS system.

The following is the XML schema definition of the **ModelMembersBulkMergeRequest** element.

```
  <xs:element name="ModelMembersBulkMergeRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q31="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelMembers" nillable="true" type="q31:ArrayOfEntityMembers" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.31.2.2 ModelMembersBulkMergeResponse

The **ModelMembersBulkMergeResponse** element provides results from the ModelMembersBulkMerge operation.

The following is the XML schema definition of the **ModelMembersBulkMergeResponse** element.

```
  <xs:element name="ModelMembersBulkMergeResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q32="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q32:OperationResult" />
        <xs:element xmlns:q33="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="StagingBatches" nillable="true" type="q33:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.32 ModelMembersBulkUpdate

The **ModelMembersBulkUpdate** operation provides asynchronous batch updating of members within an entity.



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This operation is similar to EntityMembersUpdate and has the same input/request format.

This bulk operation proceeds as follows:

- All data changes are translated into staging batch records (attribute and relationship staging only).
- Batch processing is initiated.
- The operation returns the batch ID for the staging records, not the results of the update.

The following is the WSDL definition of the **ModelMembersBulkUpdate** operation.

```
    <wsdl:operation name="ModelMembersBulkUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkUpdate" name="ModelMembersBulkUpdateRequest"
message="tns:ModelMembersBulkUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkUpdateResponse" name="ModelMembersBulkUpdateResponse"
message="tns:ModelMembersBulkUpdateResponse" />
    </wsdl:operation>
```

#### 3.1.4.32.1 Messages

The following WSDL message definitions are specific to the **ModelMembersBulkUpdate** operation.

##### 3.1.4.32.1.1 ModelMembersBulkUpdateRequest

The **ModelMembersBulkUpdateRequest** message contains the **ModelMembersBulkUpdateRequest** element.

##### 3.1.4.32.1.2 ModelMembersBulkUpdateResponse

The **ModelMembersBulkUpdateResponse** message contains the **ModelMembersBulkUpdateResponse** element.

#### 3.1.4.32.2 Elements

The following XML schema element definitions are specific to the **ModelMembersBulkUpdate** operation.

##### 3.1.4.32.2.1 ModelMembersBulkUpdateRequest

The **ModelMembersBulkUpdateRequest** element may contain members from a single model to be either created or updated.

The following is the XML schema definition of the **ModelMembersBulkUpdateRequest** element.

```
  <xs:element name="ModelMembersBulkUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q28="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelMembers" nillable="true" type="q28:ArrayOfEntityMembers" />
```



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

#### 3.1.4.32.2.2 ModelMembersBulkUpdateResponse

The **ModelMembersBulkUpdateResponse** element returns one or more staging batch identifiers for the staging batches that were created to process the member merge.

The following is the XML schema definition of the **ModelMembersBulkUpdateResponse** element.

```
  <xs:element name="ModelMembersBulkUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q29="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q29:OperationResult" />
        <xs:element xmlns:q30="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="StagingBatches" nillable="true" type="q30:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.33 ModelMembersGet

The **ModelMembersGet** operation retrieves complete lists of entity members and/or hierarchies from one or more models.

The following is the WSDL definition of the **ModelMembersGet** operation.

```
    <wsdl:operation name="ModelMembersGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersGet" name="ModelMembersGetRequest" message="tns:ModelMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersGetResponse" name="ModelMembersGetResponse" message="tns:ModelMembersGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.33.1 Messages

The following WSDL message definitions are specific to the **ModelMembersGet** operation.

#### 3.1.4.33.1.1 ModelMembersGetRequest

The **ModelMembersGetRequest** message contains the **ModelMembersGetRequest** element.

#### 3.1.4.33.1.2 ModelMembersGetResponse

The **ModelMembersGetResponse** message contains the **ModelMembersGetResponse** element.



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#### 3.1.4.33.2 Elements

The following XML schema element definitions are specific to the **ModelMembersGet** operation.

##### 3.1.4.33.2.1 ModelMembersGetRequest

The **ModelMembersGetRequest** element uses the ModelMembersGetCriteria complex type to specify inputs to the request. The **ModelMembersGetRequest** element uses the ModelMembersResultCriteria complex type to retrieve a list of model members for selected models.

The following is the XML schema definition of the **ModelMembersGetRequest** element.

```
  <xs:element name="ModelMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ModelsGetCriteria" nillable="true"
type="q408:ModelMembersGetCriteria" />
        <xs:element minOccurs="0" name="ModelsResultCriteria" nillable="true"
type="q409:ModelMembersResultCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.33.2.2 ModelMembersGetResponse

The **ModelMembersGetResponse** element returns a response that contains one or more of the following complex types:

- ArrayOfEntityMembers
- OperationResult

The following is the XML schema definition of the **ModelMembersGetResponse** element.

```
  <xs:element name="ModelMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q13="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ModelMembers" nillable="true" type="q13:ArrayOfEntityMembers" />
        <xs:element xmlns:q14="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q14:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.33.3 Complex Types

The following XML schema complex type definitions are specific to the ModelMembersGet operation.

##### 3.1.4.33.3.1 ModelMembersGetCriteria

The **ModelMembersGetCriteria** complex type specifies the model criteria for the result set that is returned in ModelMembersGet.

The following is the XML schema definition of the **ModelMembersGetCriteria** complex type.



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```
  <xs:complexType name="ModelMembersGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q410="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q410:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Entities" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Models" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**Entities**: Specifies an ArrayOfIdentifier instance that contains the list of identifiers for the entities.

**Models**: Specifies an **ArrayOfIdentifier** instance that contains the list of identifiers for the models.

**Versions**: Specifies an **ArrayOfIdentifier** instance that contains the list of identifiers for the versions.

#### 3.1.4.33.3.2 ModelMembersResultCriteria

The **ModelMembersResultCriteria** request complex type specifies the criteria for model member categories.

The following is the XML schema definition of the **ModelMembersResultCriteria** complex type.

```
  <xs:complexType name="ModelMembersResultCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q412="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q412:DataContractBase">
        <xs:sequence>
```



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```
            <xs:element minOccurs="0" name="IncludeCollectionMembers" type="xs:boolean" />
            <xs:element minOccurs="0" name="IncludeConsolidatedMembers" type="xs:boolean" />
            <xs:element minOccurs="0" name="IncludeLeafMembers" type="xs:boolean" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
```

**IncludeCollectionMembers**: Specifies that a list of collection members will be returned.

**IncludeConsolidatedMembers**: Specifies that a list of consolidated members will be returned.

**IncludeLeafMembers**: Specifies that a list of leaf members will be returned.

### 3.1.4.34 SecurityPrincipalsClone

The **SecurityPrincipalsClone** operation creates or updates copies of security principals and/or permissions in the MDM repository.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrincipalsClone** operation.

```
<wsdl:operation name="SecurityPrincipalsClone">
<soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsClone" style="document"/>
<wsdl:input name="SecurityPrincipalsRequest">
<wsp:PolicyReference URI="#WSHttpBinding_IService_SecurityPrincipalsClone_Input_policy"/>
<soap12:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal"/>
<soap12:body use="literal"/>
</wsdl:input>
<wsdl:output name="MessageResponse">
<wsp:PolicyReference URI="#WSHttpBinding_IService_SecurityPrincipalsClone_output_policy"/>
<soap12:body use="literal"/>
</wsdl:output>
</wsdl:operation>
```

#### 3.1.4.34.1 Messages

The following WSDL message definitions are specific to the **SecurityPrincipalsClone** operation.

##### 3.1.4.34.1.1 SecurityPrincipalsRequest

The **SecurityPrincipalsRequest** message contains the **SecurityPrincipalsRequest** element.

#### 3.1.4.34.2 Elements

The following XML schema element definitions are specific to the **SecurityPrincipalsClone** operation.

### 3.1.4.35 SecurityPrincipalsCreate

The **SecurityPrincipalsCreate** operation creates a security principal object in the MDM repository.



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The following is the WSDL definition of the **SecurityPrincipalsCreate** operation.

```
<wsdl:operation name="SecurityPrincipalsCreate">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsCreate" name="SecurityPrincipalsRequest"
message="tns:SecurityPrincipalsRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsCreateResponse" name="SecurityCreateResponse"
message="tns:SecurityCreateResponse"/>
</wsdl:operation>
```

#### 3.1.4.35.1 Messages

The following WSDL message definitions are specific to the **SecurityPrincipalsCreate** operation.

##### 3.1.4.35.1.1 SecurityPrincipalsRequest

The **SecurityPrincipalsRequest** message contains a **SecurityPrincipalsRequest** element.

##### 3.1.4.35.1.2 SecurityCreateResponse

The **SecurityCreateResponse** message contains a **SecurityCreateResponse** element.

#### 3.1.4.35.2 Elements

The following XML schema element definitions are specific to the **SecurityPrincipalsCreate** operation.

##### 3.1.4.35.2.1 SecurityCreateResponse

The **SecurityCreateResponse** element may contain a set of identifiers for newly created principals and/or permissions.

The following is the XML schema definition of the **SecurityCreateResponse** element.

```
  <xs:element name="SecurityCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q96="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q96:OperationResult" />
        <xs:element xmlns:q97="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="SecuritySet" nillable="true" type="q97:SecuritySet" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.35.2.2 SecuritySet

The **SecuritySet** element contains a set of principals and their privileges.

The following is the XML schema definition of the **SecuritySet** element.



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```
<xs:complexType name="SecuritySet">
    <xs:sequence>
      <xs:element
xmlns:q262="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Principal" nillable="true" type="q262:SecurityPrincipals">
        <xs:annotation>
          <xs:appinfo>
            <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
          </xs:appinfo>
        </xs:annotation>
      </xs:element>
      <xs:element
xmlns:q263="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Privilege" nillable="true" type="q263:SecurityPrivileges">
        <xs:annotation>
          <xs:appinfo>
            <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
          </xs:appinfo>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
```

### 3.1.4.36 SecurityPrincipalsDelete

The **SecurityPrincipalsDelete** operation deletes components of the security principal.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrincipalsDelete** operation.

```
<wsdl:operation name="SecurityPrincipalsDelete">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsDelete" name="SecurityPrincipalsDeleteRequest"
message="tns:SecurityPrincipalsDeleteRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsDeleteResponse" name="MessageResponse" message="tns:MessageResponse"/>
</wsdl:operation>
```

#### 3.1.4.36.1 Messages

The following XML schema message definitions are specific to the **SecurityPrincipalsDelete** operation.

##### 3.1.4.36.1.1 SecurityPrincipalsDeleteRequest

The **SecurityPrincipalsDeleteRequest** message contains the **SecurityPrincipalsDeleteRequest** element.



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### 3.1.4.36.2 Elements

The following XML schema element definitions are specific to the **SecurityPrincipalsDelete** operation.

#### 3.1.4.36.2.1 SecurityPrincipalsDeleteRequest

The **SecurityPrincipalsDeleteRequest** element specifies the criteria in the SecurityPrincipalsDeleteCriteria complex type for the retrieval of security principals.

The following is the XML schema definition of the **SecurityPrincipalsDeleteRequest** element.

```
  <xs:element name="SecurityPrincipalsDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q102="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Critiera" nillable="true" type="q102:SecurityPrincipalsDeleteCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.36.3 Complex Types

The following XML schema complex type definitions are specific to the **SecurityPrincipalsDelete** operation.

#### 3.1.4.36.3.1 SecurityPrincipalsDeleteCriteria

The **SecurityPrincipalsDeleteCriteria** complex type provides a list of groups or users to be removed from the MDS system. This does not affect these groups or users in Active Directory.

The following is the WSDL definition of the **SecurityPrincipalsDeleteCriteria** complex type.

```
<xs:complexType name="SecurityPrincipalsDeleteCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="Groups" nillable="true" type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="Users" nillable="true" type="tns:ArrayOfIdentifier" />
  </xs:sequence>
</xs:complexType>
```

**Groups**: Specifies an ArrayOfIdentifier instance that contains a set of groups to delete.

**Users**: Specifies an **ArrayOfIdentifier** instance that contains a set of users to delete.

### 3.1.4.37 SecurityPrincipalsGet

The **SecurityPrincipalsGet** operation gets the security principals data in whole or in parts.

The following is the WSDL definition of the **SecurityPrincipalsGet** operation.

```
    <wsdl:operation name="SecurityPrincipalsGet">
```



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```
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsGet" name="SecurityPrincipalsGetRequest"
message="tns:SecurityPrincipalsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsGetResponse" name="SecurityPrincipalsGetResponse"
message="tns:SecurityPrincipalsGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.37.1 Messages

The following XML schema message definitions are specific to the **SecurityPrincipalsGet** operation.

##### 3.1.4.37.1.1 SecurityPrincipalsGetRequest

The **SecurityPrincipalsGetRequest** message contains the **SecurityPrincipalsGetRequest** element.

##### 3.1.4.37.1.2 SecurityPrincipalsGetResponse

The **SecurityPrincipalsGetResponse** message contains the **SecurityPrincipalsGetResponse** element.

#### 3.1.4.37.2 Elements

The following XML schema element definitions are specific to the **SecurityPrincipalsGet** operation.

##### 3.1.4.37.2.1 SecurityPrincipalsGetRequest

The following is the XML schema definition of the **SecurityPrincipalsGetRequest** element.

```
  <xs:element name="SecurityPrincipalsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q99="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Criteria" nillable="true" type="q99:SecurityPrincipalsCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.37.2.2 SecurityPrincipalsGetResponse

The following is the XML schema definition of the **SecurityPrincipalsGetResponse** element.

```
  <xs:element name="SecurityPrincipalsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q100="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q100:OperationResult" />
        <xs:element xmlns:q101="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Principals" nillable="true" type="q101:SecurityPrincipals" />
      </xs:sequence>
    </xs:complexType>
```



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

### 3.1.4.37.3 Complex Types

The following XML schema element definitions are specific to the SecurityPrincipalsGet operation.

#### 3.1.4.37.3.1 SecurityPrincipalsCriteria

The **SecurityPrincipalsCriteria** complex type specifies security information to provide in the responses to the MDS system.

The following is the XML schema definition of the **SecurityPrincipalsCriteria** complex type.

```
<xs:complexType name="SecurityPrincipalsCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="All" type="xs:boolean" />
    <xs:element minOccurs="0" name="FunctionPrivilege" type="tns:ResultType" />
    <xs:element minOccurs="0" name="HierarchyMemberPrivilege" type="tns:ResultType" />
    <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="ModelPrivilege" type="tns:ResultType" />
    <xs:element minOccurs="0" name="ResultType" type="tns:ResultType" />
    <xs:element
xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="SecurityResolutionType" type="q30:SecurityResolutionType" />
    <xs:element
xmlns:q31="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Type" type="q31:PrincipalType" />
  </xs:sequence>
</xs:complexType>
```

**All**: Specifies a **Boolean** value that is used to return all principal items in a response.

**FunctionPrivilege**: Specifies the ResultType simple type.

**HierarchyMemberPrivilege**: Specifies the **ResultType** simple type.

**Identifiers**: Specifies the ArrayOfIdentifier complex type.

**ModelPrivilege**: Specifies the **ResultType** simple type.

**ResultType**: Specifies the **ResultType** simple type.

**SecurityResolutionType**: Specifies the SecurityResolutionType simple type.

**Type**: Specifies the PrincipalType simple type.

## 3.1.4.38 SecurityPrincipalsUpdate

The **SecurityPrincipalsUpdate** operation updates existing security principal (user or group) objects in the MDS repository. The **SecurityPrincipalsUpdate** operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrincipalsUpdate** operation.



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```
    <wsdl:operation name="SecurityPrincipalsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsUpdate" name="SecurityPrincipalsRequest" message="tns:SecurityPrincipalsRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

### 3.1.4.39 SecurityPrivilegesClone

The **SecurityPrivilegesClone** operation creates exact copies of permissions within the security model in the MDM repository.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrivilegesClone** operation.

```
<wsdl:operation name="SecurityPrivilegesClone">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesClone" name="SecurityPrivilegesRequest"
message="tns:SecurityPrivilegesRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCloneResponse" name="MessageResponse" message="tns:MessageResponse"/>
</wsdl:operation>
```

#### 3.1.4.39.1 Messages

The following XML schema message definitions are specific to the **SecurityPrivilegesClone** operation.

##### 3.1.4.39.1.1 SecurityPrivilegesRequest

The **SecurityPrivilegesRequest** request message contains the **SecurityPrivilegesRequest** element.

### 3.1.4.40 SecurityPrivilegesCreate

The **SecurityPrivilegesCreate** operation creates a new security privilege for a security principal in the MDS repository. The **SecurityPrivilegesCreate** operation returns a SecurityCreateResponse message.

The following is the WSDL definition of the **SecurityPrivilegesCreate** operation.

```
     <wsdl:operation name="SecurityPrivilegesCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCreate" name="SecurityPrivilegesRequest" message="tns:SecurityPrivilegesRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCreateResponse" name="SecurityCreateResponse"
message="tns:SecurityCreateResponse" />
```



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```
</wsdl:operation>
```

#### 3.1.4.41 SecurityPrivilegesDelete

The **SecurityPrivilegesDelete** operation deletes security privilege information from the MDM repository.

This operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrivilegesDelete** operation.

```
<wsdl:operation name="SecurityPrivilegesDelete">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesDelete" name="SecurityPrivilegesDeleteRequest"
message="tns:SecurityPrivilegesDeleteRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesDeleteResponse" name="MessageResponse" message="tns:MessageResponse"/>
</wsdl:operation>
```

##### 3.1.4.41.1 Messages

The following XML schema message definitions are specific to the **SecurityPrivilegesDelete** operation.

###### 3.1.4.41.1.1 SecurityPrivilegesDeleteRequest

The **SecurityPrivilegesDeleteRequest** request message contains the **SecurityPrivilegesDeleteRequest** element.

##### 3.1.4.41.2 Elements

The following XML schema element definitions are specific to the **SecurityPrivilegesDelete** operation.

###### 3.1.4.41.2.1 SecurityPrivilegesDeleteRequest

The **SecurityPrivilegesDeleteRequest** request element specifies the criteria in the SecurityPrivilegesDeleteCriteria complex type for the deletion of security privileges.

The following is the XML schema definition of the **SecurityPrivilegesDeleteRequest** element.

```
  <xs:element name="SecurityPrivilegesDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q107="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Critiera" nillable="true" type="q107:SecurityPrivilegesDeleteCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```



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#### 3.1.4.41.3 Complex Types

The following XML schema complex type definitions are specific to the **SecurityPrivilegesDelete** operation.

##### 3.1.4.41.3.1 SecurityPrivilegesDeleteCriteria

The **SecurityPrivilegesDeleteCriteria** complex type specifies the criteria for deleting security privileges.

The following is the XML schema definition of the **SecurityPrivilegesDeleteCriteria** complex type.

```
  <xs:complexType name="SecurityPrivilegesDeleteCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="FunctionPrivileges" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="HierarchyMemberPrivileges" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element minOccurs="0" name="ModelPrivileges" nillable="true"
type="tns:ArrayOfIdentifier" />
    </xs:sequence>
  </xs:complexType>
```

**FunctionPrivileges**: Specifies whether function privileges should be deleted.

**HierarchyMemberPrivileges**: Specifies whether hierarchy member privileges should be deleted.

**ModelPrivileges**: Specifies whether model privileges should be deleted.

### 3.1.4.42 SecurityPrivilegesGet

The **SecurityPrivilegesGet** operation retrieves security privilege information from the MDM repository.

The following is the WSDL definition of the **SecurityPrivilegesGet** operation.

```
<wsdl:operation name="SecurityPrivilegesGet">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesGet" name="SecurityPrivilegesGetRequest"
message="tns:SecurityPrivilegesGetRequest"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesGetResponse" name="SecurityPrivilegesGetResponse"
message="tns:SecurityPrivilegesGetResponse"/>
</wsdl:operation>
```

#### 3.1.4.42.1 Messages

The following XML schema message definitions are specific to the **SecurityPrivilegesGet** operation.

##### 3.1.4.42.1.1 SecurityPrivilegesGetRequest

The **SecurityPrivilegesGetRequest** request message contains the **SecurityPrivilegesGetRequest** element.



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#### 3.1.4.42.1.2 SecurityPrivilegesGetResponse

The **SecurityPrivilegesGetResponse** response message contains the **SecurityPrivilegesGetResponse** element.

### 3.1.4.42.2 Elements

The following XML schema element definitions are specific to the **SecurityPrivilegesGet** operation.

#### 3.1.4.42.2.1 SecurityPrivilegesGetRequest

The **SecurityPrivilegesGetRequest** request element specifies the criteria in the SecurityPrivilegesGetCriteria complex type for the retrieval of security privileges.

The following is the XML schema definition of the **SecurityPrivilegesGetRequest** element.

```
  <xs:element name="SecurityPrivilegesGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q104="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Criteria" nillable="true" type="q104:SecurityPrivilegesGetCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.42.2.2 SecurityPrivilegesGetResponse

The **SecurityPrivilegesGetResponse** response element returns an operation result and a SecurityPrivileges instance that contains the returned security privileges.

The following is the XML schema definition of the **SecurityPrivilegesGetResponse** element.

```
  <xs:element name="SecurityPrivilegesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q105="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q105:OperationResult" />
        <xs:element xmlns:q106="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="Privileges" nillable="true" type="q106:SecurityPrivileges" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.42.3 Complex Types

The following XML schema complex type definitions are specific to the **SecurityPrivilegesGet** operation.

#### 3.1.4.42.3.1 SecurityPrivilegesGetCriteria

The **SecurityPrivilegesGetCriteria** complex type specifies the criteria for specifying the types of security privileges to return.



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The following is the XML schema definition of the **SecurityPrivilegesGetCriteria** complex type.

```
<xs:complexType name="SecurityPrivilegesGetCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="FunctionPrivilegesCriteria" nillable="true"
type="tns:FunctionPrivilegesCriteria" />
    <xs:element minOccurs="0" name="HierarchyMemberPrivilegesCriteria" nillable="true"
type="tns:HierarchyMemberPrivilegesCriteria" />
    <xs:element minOccurs="0" name="ModelPrivilegesCriteria" nillable="true"
type="tns:ModelPrivilegesCriteria" />
  </xs:sequence>
</xs:complexType>
```

**FunctionPrivilegesCriteria**: Specifies an instance of the FunctionPrivilegesCriteria complex type that is used to specify function privilege criteria.

**HierarchyMemberPrivilegesCriteria**: Specifies an instance of the HierarchyMemberPrivilegesCriteria complex type that is used to specify hierarchy member privilege criteria.

**ModelPrivilegesCriteria**: Specifies an instance of the ModelPrivilegesCriteria complex type that is used to specify model privilege criteria.

### 3.1.4.42.3.2 FunctionPrivilegesCriteria

The **FunctionPrivilegesCriteria** complex type specifies the criteria for function privileges.

The following is the XML schema definition of the **FunctionPrivilegesCriteria** complex type.

```
<xs:complexType name="FunctionPrivilegesCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="IsAuthorized" type="xs:boolean" />
    <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
    <xs:element
xmlns:q32="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q32:PrincipalType" />
    <xs:element minOccurs="0" name="ResultType" type="tns:ResultType" />
  </xs:sequence>
</xs:complexType>
```

**Identifiers**: Specifies an ArrayOfIdentifier instance that specifies the function privilege identifiers.

**IsAuthorized**: Specifies the **IsAuthorized** flag.

**PrincipalId**: Specifies the principal ID.

**PrincipalType**: Specifies the principal type.

**ResultType**: Specifies the result type.

### 3.1.4.42.3.3 HierarchyMemberPrivilegesCriteria

The **HierarchyMemberPrivilegesCriteria** complex type specifies criteria for hierarchy member privileges.



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The following is the XML schema definition of the **HierarchyMemberPrivilegesCriteria** complex type.

```
<xs:complexType name="HierarchyMemberPrivilegesCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="tns:Identifier" />
    <xs:element
xmlns:q33="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="HierarchyType" type="q33:HierarchyType" />
    <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="MemberCode" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
    <xs:element
xmlns:q34="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q34:Permission" />
    <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
    <xs:element
xmlns:q35="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q35:PrincipalType" />
    <xs:element minOccurs="0" name="ResultType" type="tns:ResultType" />
  </xs:sequence>
</xs:complexType>
```

**EntityId**: Specifies an entity ID.

**HierarchyId**: Specifies a hierarchy ID.

**HierarchyType**: Specifies a hierarchy type.

**Identifiers**: Specifies an ArrayOfIdentifier instance that specifies the hierarchy member privilege identifiers.

**MemberCode**: Specifies a member code.

**ModelId**: Specifies a model ID.

**Permission**: Specifies a permission level.

**PrincipalId**: Specifies a principal ID.

**PrincipalType**: Specifies a principal type.

**ResultType**: Specifies a result type.

### 3.1.4.42.3.4 ModelPrivilegesCriteria

The **ModelPrivilegesCriteria** complex type specifies criteria for model privileges.

The following is the XML schema definition of the **ModelPrivilegesCriteria** complex type.

```
<xs:complexType name="ModelPrivilegesCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="tns:ArrayOfIdentifier" />
    <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
    <xs:element minOccurs="0" name="ObjectId" nillable="true" type="tns:Identifier" />
```



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```
      <xs:element
xmlns:q36="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Permission" type="q36:Permission" />
      <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="tns:Identifier" />
      <xs:element
xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="PrincipalType" type="q37:PrincipalType" />
      <xs:element minOccurs="0" name="ResultType" type="tns:ResultType" />
    </xs:sequence>
  </xs:complexType>
```

**Identifiers**: Specifies an ArrayOfIdentifier instance that specifies the model privilege identifiers.

**ModelId**: Specifies a model ID.

**ObjectId**: Specifies an object ID.

**Permission**: Specifies a permission level.

**PrincipalId**: Specifies a principal ID.

**PrincipalType**: Specifies a principal type.

**ResultType**: Specifies a result type.

### 3.1.4.43 SecurityPrivilegesUpdate

The **SecurityPrivilegesUpdate** operation updates existing security privileges for a security principal in the MDS repository. The **SecurityPrivilegesUpdate** operation returns a standard MessageResponse message.

The following is the WSDL definition of the **SecurityPrivilegesUpdate** operation.

```
    <wsdl:operation name="SecurityPrivilegesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesUpdate" name="SecurityPrivilegesRequest" message="tns:SecurityPrivilegesRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
```

### 3.1.4.44 ServiceCheck

The **ServiceCheck** operation provides a check on the current availability of the MDS service. The **ServiceCheck** operation returns a standard MessageResponse message.

The following is the WSDL definition of the **ServiceCheck** operation.

```
    <wsdl:operation name="ServiceCheck">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceCheck" name="ServiceCheckGetRequest" message="tns:ServiceCheckGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceCheckResponse" name="MessageResponse" message="tns:MessageResponse" />
```



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```
    </wsdl:operation>
```

#### 3.1.4.44.1 Messages

The **ServiceCheckGetRequest** message contains the **ServiceCheckGetRequest** element.

#### 3.1.4.44.2 Elements

The following XML schema element definitions are specific to the **ServiceCheck** operation.

##### 3.1.4.44.2.1 ServiceCheckGetRequest

The **ServiceCheckGetRequest** element specifies the service to be checked.

The following is the XML schema definition of the **ServiceCheckGetRequest** element.

```
<xs:element name="ServiceCheckGetRequest">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.1.4.45 StagingClear

The **StagingClear** operation removes records from an existing staging batch. This operation is asynchronous. The request to clear a batch is queued up for processing along with all other batch requests. This process prevents batches that are in process from being cleared.

The following is the WSDL definition of the **StagingClear** operation.

```
    <wsdl:operation name="StagingClear">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngClear" name="StagingClearRequest" message="tns:StagingClearRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngClearResponse" name="StagingClearResponse" message="tns:StagingClearResponse" />
    </wsdl:operation>
```

#### 3.1.4.45.1 Messages

The following WSDL message definitions are specific to the **StagingClear** operation.

##### 3.1.4.45.1.1 StagingClearRequest

The **StagingClearRequest** message contains the **StagingClearRequest** element.

##### 3.1.4.45.1.2 StagingClearResponse

The **StagingClearResponse** message contains the **StagingClearResponse** element.



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#### 3.1.4.45.2 Elements

The following XML schema element definitions are specific to the **StagingClear** operation.

##### 3.1.4.45.2.1 StagingClearRequest

The **StagingClearRequest** element specifies the array of batches to clear.

The following is the XML schema definition of the **StagingClearRequest** element.

```
  <xs:element name="StagingClearRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q39="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Batches" nillable="true" type="q39:ArrayOfIdentifier" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.45.2.2 StagingClearResponse

The **StagingClearResponse** element specifies counts for the batches and the attribute, member, and relationship records that are cleared.

The following is the XML schema definition of the **StagingClearResponse** element.

```
  <xs:element name="StagingClearResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AttributesRecordsClearedCount" type="xs:int" />
        <xs:element minOccurs="0" name="BatchesClearedCount" type="xs:int" />
        <xs:element minOccurs="0" name="MemberRecordsClearedCount" type="xs:int" />
        <xs:element xmlns:q40="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q40:OperationResult" />
        <xs:element minOccurs="0" name="RelationshipRecordsClearedCount" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.46 StagingGet

The **StagingGet** operation retrieves a staging record set by using batch IDs. This operation can be used to retrieve the following:

- Information about the batch.
- Information about the batch and the data that is contained in the batch.

The following is the WSDL definition of the **StagingGet** operation.

```
    <wsdl:operation name="StagingGet">
```



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```
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/StagingGet" name="StagingGetRequest" message="tns:StagingGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/StagingGetResponse" name="StagingGetResponse" message="tns:StagingGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.46.1 Messages

The following XML schema message definitions are specific to the **StagingGet** operation.

##### 3.1.4.46.1.1 StagingGetRequest

The **StagingGetRequest** message contains the **StagingGetRequest** element.

##### 3.1.4.46.1.2 StagingGetResponse

The **StagingGetResponse** message contains the **StagingGetResponse** element.

#### 3.1.4.46.2 Elements

The following XML schema element definitions are specific to the **StagingGet** operation.

##### 3.1.4.46.2.1 StagingGetRequest

The **StagingGetRequest** element specifies the criteria in the StagingResultCriteria complex type for the retrieval of staging information.

The following is the XML schema definition of the **StagingGetRequest** element.

```
  <xs:element name="StagingGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IncludeUnbatchedInformation" type="xs:boolean" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q34="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="StagingResultCriteria" nillable="true" type="q34:StagingResultCriteria" />
        <xs:element xmlns:q35="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="StagingSearchCriteria" nillable="true" type="q35:StagingSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.46.2.2 StagingGetResponse

The **StagingGetResponse** element returns a response that contains an operation result and an ArrayOfStagingBatch instance that contains staging batch information.

The following is the XML schema definition of the **StagingGetResponse** element.

```
  <xs:element name="StagingGetResponse">
    <xs:complexType>
```



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```
      <xs:sequence>
        <xs:element xmlns:q36="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Batches" nillable="true" type="q36:ArrayOfStagingBatch" />
        <xs:element xmlns:q37="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q37:OperationResult" />
        <xs:element xmlns:q38="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="UnbatchedInformation" nillable="true" type="q38:ArrayOfStagingUnbatchedInformation" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.46.3 Complex Types

The following XML schema complex type definitions are specific to the **StagingGet** operation.

#### 3.1.4.46.3.1 StagingResultCriteria

The **StagingResultCriteria** request complex type specifies the criteria for staging batch categories.

The following is the XML schema definition of the **StagingResultCriteria** complex type.

```
  <xs:complexType name="StagingResultCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q466="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q466:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="All" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Members" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PageSize" nillable="true" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
```



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```
          </xs:element>
          <xs:element minOccurs="0" name="Relationships" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

**All**: Specifies whether all batches should be returned.

**Attributes**: Specifies whether attribute batches should be returned.

**Members**: Specifies whether member batches should be returned.

**PageSize**: Specifies the size of the page that is returned.

**Relationships**: Specifies whether relationship batches should be returned.

#### 3.1.4.46.3.2 StagingSearchCriteria

The **StagingSearchCriteria** request complex type specifies the criteria for staging batch types.

The following is the XML schema definition of the **StagingSearchCriteria** complex type.

```
<xs:complexType name="StagingSearchCriteria">
    <xs:sequence>
      <xs:element
xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="StagingBatchStatus" type="q13:StagingBatchStatus" />
      <xs:element minOccurs="0" name="StagingBatches" nillable="true"
type="tns:ArrayOfIdentifier" />
      <xs:element
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="StagingDataStatus" type="q14:StagingDataStatus" />
    </xs:sequence>
  </xs:complexType>
```

**StagingBatchStatus**: Specifies the staging batch status that indicates the processing status of a staging batch.

**StagingBatches**: Specifies an ArrayOfIdentifier instance that contains the staging batch identifiers.

**StagingDataStatus**: Specifies the staging data status that indicates the success or failure of staging records.

### 3.1.4.47 StagingProcess

The **StagingProcess** operation sweeps existing unbatched records in the staging tables into a batch for processing and launches execution of the staging queue on request. This operation can be used to retrieve the following:



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- Information about the batch.
- Information about the batch and the data that is contained in the batch.

The following is the WSDL definition of the **StagingProcess** operation.

```
    <wsdl:operation name="StagingProcess">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngProcess" name="StagingProcessRequest" message="tns:StagingProcessRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngProcessResponse" name="StagingProcessResponse" message="tns:StagingProcessResponse" />
    </wsdl:operation>
```

#### 3.1.4.47.1 Messages

The following WSDL message definitions are specific to the **StagingProcess** operation.

##### 3.1.4.47.1.1 StagingProcessRequest

The **StagingProcessRequest** message contains the **StagingProcessRequest** element.

##### 3.1.4.47.1.2 StagingProcessResponse

The **StagingProcessResponse** message contains the **StagingProcessResponse** element.

#### 3.1.4.47.2 Elements

The following XML schema element definitions are specific to the **StagingProcess** operation.

##### 3.1.4.47.2.1 StagingProcessRequest

The **StagingProcessRequest** element specifies the details of the staging process request.

The following is the XML schema definition of the **StagingProcessRequest** element.

```
  <xs:element name="StagingProcessRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Process" type="xs:boolean" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q84="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="UnbatchedCriteria" nillable="true" type="q84:StagingUnbatchedCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Process**: Specifies whether to perform the staging process.

**ServiceConnectionName**: Specifies the service connection name.



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**UnbatchedCriteria**: Specifies unbatched criteria by using the StagingUnbatchedCriteria complex type.

#### 3.1.4.47.2.2 StagingProcessResponse

The **StagingProcessResponse** element holds the details of the staging process response.

The following is the XML schema definition of the **StagingProcessResponse** element.

```
  <xs:element name="StagingProcessResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q85="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="BatchId" nillable="true" type="q85:StagingBatch" />
        <xs:element xmlns:q86="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q86:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**BatchId**: Specifies the batch ID by using the StagingBatch complex type.

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.47.3 Complex Types

The following XML schema complex type definitions are specific to the **StagingProcess** operation.

#### 3.1.4.47.3.1 StagingUnbatchedCriteria

The **StagingUnbatchedCriteria** complex type specifies the staging unbatched criteria.

The following is the XML schema definition of the **StagingUnbatchedCriteria** complex type.

```
  <xs:complexType name="StagingUnbatchedCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="SourceSystemId" nillable="true" type="tns:Identifier"
/>
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**ModelId**: Specifies the GUID or the exact name of a model.

**SourceSystemId**: Specifies the GUID or the exact name of the source system.

**VersionId**: Specifies the GUID or the exact name of the version.

### 3.1.4.48 SystemDomainListGet

The **SystemDomainListGet** operation retrieves a list of standard text choices that are associated with the MDS application. The returned list is localized based on the user's locale.

The request is filtered by using the SystemDomainListGetCriteria complex type.



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- **ListCode**: Specifies the unique code of the list to retrieve.
- **ListOption**: Specifies an individual list option on which to filter within the list where applicable. If a list option is not specified, all list options are returned.
- **ListGroup**: Specifies a list group ID on which to filter where applicable. If a list group is not specified, all list groups are returned.

An error occurs if one or more of these criteria are not found.

The following is the WSDL definition of the **SystemDomainListGet** operation.

```
    <wsdl:operation name="SystemDomainListGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mDomainListGet" name="SystemDomainListGetRequest" message="tns:SystemDomainListGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mDomainListGetResponse" name="SystemDomainListGetResponse"
message="tns:SystemDomainListGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.48.1 Messages

The following WSDL message definitions are specific to the **SystemDomainListGet** operation.

##### 3.1.4.48.1.1 SystemDomainListGetRequest

The **SystemDomainListGetRequest** request message contains the **SystemDomainListGetRequest** element.

##### 3.1.4.48.1.2 SystemDomainListGetResponse

The **SystemDomainListGetResponse** response message contains the **SystemDomainListGetResponse** element.

#### 3.1.4.48.2 Elements

The following XML schema element definitions are specific to the **SystemDomainListGet** operation.

##### 3.1.4.48.2.1 SystemDomainListGetRequest

The **SystemDomainListGetRequest** request element MUST include a SystemDomainListGetCriteria complex type.

The following is the XML schema definition of the **SystemDomainListGetRequest** request element.

```
  <xs:element name="SystemDomainListGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q126="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="MetadataSearchCriteria" nillable="true"
type="q126:SystemDomainListGetCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
```



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

**MetadataSearchCriteria**: Specifies a **SystemDomainListGetCriteria** complex type.

#### 3.1.4.48.2.2 SystemDomainListGetResponse

The **SystemDomainListGetResponse** response element provides a **SystemDomainLists** property that contains the domain list results.

The following is the XML schema definition of the **SystemDomainListGetResponse** element.

```
  <xs:element name="SystemDomainListGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q127="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q127:OperationResult" />
        <xs:element xmlns:q128="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="SystemDomainLists" nillable="true" type="q128:ArrayOfSystemDomainList" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**SystemDomainLists**: Specifies an array of **SystemDomainList** complex types.

**ArrayOfSystemDomainList**: Specifies the list of valid values.

### 3.1.4.48.3 Complex Types

The following XML schema complex type definitions are specific to the **SystemDomainListGet** operation.

#### 3.1.4.48.3.1 SystemDomainListGetCriteria

The **SystemDomainListGetCriteria** complex type captures query criteria for system domain lists.

The following is the XML schema definition of the **SystemDomainListGetCriteria** complex type.

```
<xs:complexType name="SystemDomainListGetCriteria">
  <xs:sequence>
    <xs:element minOccurs="0" name="ListCode" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ListGroup" nillable="true" type="xs:int" />
    <xs:element minOccurs="0" name="ListOption" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**ListCode**: Specifies the name of the domain list on which to filter. If this value is not specified, all domain lists are returned.

**ListGroup**: Specifies the integer code of the individual list grouping, or category, on which to filter. If this value is not specified, all list groups are returned.

**ListOption**: Specifies the individual list option on which to filter. If this value is not specified, all list options are returned.



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### 3.1.4.49 SystemPropertiesGet

The **SystemPropertiesGet** operation retrieves available read-only properties about the system. This operation has no request parameters and responds with all available system properties. This operation currently provides database disk size information, but this operation could be extended to include other values in the future.

System properties include the following:

- **DatabaseSchemaVersion**: The version of the MDS schema installed.

The following is the WSDL definition of the **SystemPropertiesGet** operation.

```
    <wsdl:operation name="SystemPropertiesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mPropertiesGet" name="SystemPropertiesGetRequest" message="tns:SystemPropertiesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mPropertiesGetResponse" name="SystemPropertiesGetResponse"
message="tns:SystemPropertiesGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.49.1 Messages

The following XML schema message definitions are specific to the **SystemPropertiesGet** operation.

##### 3.1.4.49.1.1 SystemPropertiesGetRequest

The **SystemPropertiesGetRequest** request message contains the **SystemPropertiesGetRequest** element.

##### 3.1.4.49.1.2 SystemPropertiesGetResponse

The **SystemPropertiesGetResponse** response message contains the **SystemPropertiesGetResponse** element.

#### 3.1.4.49.2 Elements

The following XML schema element definitions are specific to the **SystemPropertiesGet** operation.

##### 3.1.4.49.2.1 SystemPropertiesGetRequest

The **SystemPropertiesGetRequest** request element contains no input parameters.

The following is the ML schema definition of the **SystemPropertiesGetRequest** element.

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



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

#### 3.1.4.49.2.2 SystemPropertiesGetResponse

The **SystemPropertiesGetResponse** response element includes retrieved system property values in an array of SystemPropertyValue complex types.

The following is the XML schema definition of the **SystemPropertiesGetResponse** element.

```
<xs:element name="SystemPropertiesGetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q129="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q129:OperationResult" />
      <xs:element xmlns:q130="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="SystemProperties" nillable="true" type="q130:ArrayOfSystemPropertyValue"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**SystemProperties**: Specifies an ArrayOfSystemPropertyValue complex type.

### 3.1.4.49.3 Complex Types

The following XML schema complex type definitions are specific to the **SystemPropertiesGet** operation.

#### 3.1.4.49.3.1 ArrayOfSystemPropertyValue

The **ArrayOfSystemPropertyValue** complex type is an array of SystemPropertyValue complex types.

The following is the XML schema definition of the **ArrayOfSystemPropertyValue** complex type.

```
<xs:complexType name="ArrayOfSystemPropertyValue">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SystemPropertyValue"
nillable="true" type="tns:SystemPropertyValue" />
  </xs:sequence>
</xs:complexType>
```

**SystemPropertyValue**: Specifies a SystemPropertyValue complex type.

#### 3.1.4.49.3.2 SystemPropertyValue

The **SystemPropertyValue** complex type contains a system property and its value.

The following is the XML schema definition of the **SystemPropertyValue** complex type.

```
<xs:complexType name="SystemPropertyValue">
  <xs:sequence>
```



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```
      <xs:element
xmlns:q48="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="SystemPropertyType" type="q48:SystemPropertyType" />
      <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
```

**SystemPropertyType**: Specifies a SystemPropertyType simple type that uniquely identifies the system property.

**Value**: Specifies a string that contains the value of the system property.

### 3.1.4.50 SystemSettingsGet

The **SystemSettingsGet** operation retrieves system configuration settings. One selected group of system configuration settings can be retrieved. The setting group to retrieve is specified by Identifier in SystemSettingsGetCriteria.

The following is the WSDL definition of the **SystemSettingsGet** operation.

```
    <wsdl:operation name="SystemSettingsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsGet" name="SystemSettingsGetRequest" message="tns:SystemSettingsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsGetResponse" name="SystemSettingsGetResponse"
message="tns:SystemSettingsGetResponse" />       </wsdl:operation>
```

#### 3.1.4.50.1 Messages

The following WSDL message definitions are specific to the **SystemSettingsGet** operation.

##### 3.1.4.50.1.1 SystemSettingsGetRequest

The **SystemSettingsGetRequest** request message contains the **SystemSettingsGetRequest** element.

##### 3.1.4.50.1.2 SystemSettingsGetResponse

The **SystemSettingsGetResponse** response message contains the **SystemSettingsGetResponse** element.

#### 3.1.4.50.2 Elements

The following XML schema element definitions are specific to the **SystemSettingsGet** operation.

##### 3.1.4.50.2.1 SystemSettingsGetRequest

The **SystemSettingsGetRequest** request element MUST include a SystemSettingsGetCriteria complex type.

The following is the XML schema definition of the **SystemSettingsGetRequest** request element.



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```
  <xs:element name="SystemSettingsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q121="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="MetadataSearchCriteria" nillable="true"
type="q121:SystemSettingsGetCriteria" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**MetadataSearchCriteria**: Specifies a **SystemSettingsGetCriteria** complex type.

#### 3.1.4.50.2.2 SystemSettingsGetResponse

The **SystemSettingsGetResponse** response element provides system settings within an ArrayOfSystemSettingGroup complex type.

The following is the XML schema definition of the **SystemSettingsGetResponse** element.

```
  <xs:element name="SystemSettingsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q122="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q122:OperationResult" />
        <xs:element xmlns:q123="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="SystemSettingsGroups" nillable="true"
type="q123:ArrayOfSystemSettingGroup" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**SystemSettingsGroups**: Specifies an **ArrayOfSystemSettingGroup** complex type.

### 3.1.4.50.3 Complex Types

The following XML schema complex type definitions are specific to the **SystemSettingsGet** operation.

#### 3.1.4.50.3.1 SystemSettingsGetCriteria

The **SystemSettingsGetCriteria** complex type identifies a system settings group for retrieval.

The following is the XML schema definition of the **SystemSettingsGetCriteria** complex type.

```
  <xs:complexType name="SystemSettingsGetCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="Group" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**Group**: Specifies an identifier of a system settings group.



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### 3.1.4.51 SystemSettingsUpdate

The **SystemSettingsUpdate** operation changes system configuration settings. One or more settings can be updated in one request.

System settings are specified by a keyword string. An error occurs when a setting that does not exist is specified.

The following is the WSDL definition of the **SystemSettingsUpdate** operation.

```
    <wsdl:operation name="SystemSettingsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsUpdate" name="SystemSettingsUpdateRequest" message="tns:SystemSettingsUpdateRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsUpdateResponse" name="SystemSettingsUpdateResponse"
message="tns:SystemSettingsUpdateResponse" />
    </wsdl:operation>
```

#### 3.1.4.51.1 Messages

The following WSDL message definitions are specific to the **SystemSettingsUpdate** operation.

##### 3.1.4.51.1.1 SystemSettingsUpdateRequest

The **SystemSettingsUpdateRequest** request message contains the **SystemSettingsUpdateRequest** element.

##### 3.1.4.51.1.2 SystemSettingsUpdateResponse

The **SystemSettingsUpdateResponse** response message contains the **SystemSettingsUpdateResponse** element.

#### 3.1.4.51.2 Elements

The following XML schema element definitions are specific to the **SystemSettingsUpdate** operation.

##### 3.1.4.51.2.1 SystemSettingsUpdateRequest

The **SystemSettingsUpdateRequest** request element includes an ArrayOfSystemSettingGroup as a container for one or more groups of one or more system settings to be updated.

The following is the XML schema definition of the **SystemSettingsUpdateRequest** element.

```
  <xs:element name="SystemSettingsUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q124="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="SystemSettingGroups" nillable="true"
type="q124:ArrayOfSystemSettingGroup" />
```



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

**SystemSettingGroups**: An **ArrayOfSystemSettingGroup** complex type.

#### 3.1.4.51.2.2 SystemSettingsUpdateResponse

The **SystemSettingsUpdateResponse** response element provides only standard operation results.

The following is the XML schema definition of the **SystemSettingsUpdateResponse** element.

```
  <xs:element name="SystemSettingsUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q125="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q125:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.52 TransactionAnnotationsCreate

The **TransactionAnnotationsCreate** operation creates annotations on an existing transaction. This operation creates annotations that are bound only to prior transactions. EntityMemberAnnotationsCreate is used to create a stand-alone transaction (meaning a transaction that is attached directly to a member but not to a transaction).

A user can annotate only his or her own transactions. Model administrators can annotate all transactions.

This operation requires a single transaction ID input together with one or more annotation comments.

This operation returns an AnnotationsCreateResponse message.

The following is the WSDL definition of the **TransactionAnnotationsCreate** operation.

```
    <wsdl:operation name="TransactionAnnotationsCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsCreate" name="TransactionAnnotationsCreateRequest"
message="tns:TransactionAnnotationsCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsCreateResponse" name="AnnotationsCreateResponse"
message="tns:AnnotationsCreateResponse" />
    </wsdl:operation>
```

#### 3.1.4.52.1 Messages

The following WSDL message definitions are specific to the **TransactionAnnotationsCreate** operation.



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#### 3.1.4.52.1.1 TransactionAnnotationsCreateRequest

The **TransactionAnnotationsCreateRequest** message contains the **TransactionAnnotationsCreateRequest** element.

### 3.1.4.52.2 Elements

The following XML schema element definitions are specific to the **TransactionAnnotationsCreate** operation.

#### 3.1.4.52.2.1 TransactionAnnotationsCreateRequest

The **TransactionAnnotationsCreateRequest** element specifies the details of what is requested in the operation.

The following is the XML schema definition of the **TransactionAnnotationsCreateRequest** element.

```
  <xs:element name="TransactionAnnotationsCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q62="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Annotations" nillable="true" type="q62:ArrayOfAnnotation" />
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**Annotations**: Specifies a collection of annotations by using the ArrayOfAnnotation complex type.

**ServiceConnectionName**: Specifies the service connection name.

**TransactionId**: Specifies the ID of an existing transaction.

## 3.1.4.53 TransactionAnnotationsGet

The **TransactionAnnotationsGet** operation retrieves annotations that are associated with a transaction. This operation has one required input, which is the transaction ID.

The following is the WSDL definition of the **TransactionAnnotationsGet** operation.

```
    <wsdl:operation name="TransactionAnnotationsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsGet" name="TransactionAnnotationsGetRequest"
message="tns:TransactionAnnotationsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsGetResponse" name="TransactionAnnotationsGetResponse"
message="tns:TransactionAnnotationsGetResponse" />
    </wsdl:operation>
```



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#### 3.1.4.53.1 Messages

The following WSDL message definitions are specific to the **TransactionAnnotationsGet** operation.

##### 3.1.4.53.1.1 TransactionAnnotationsGetRequest

The **TransactionAnnotationsGetRequest** message contains the **TransactionAnnotationsGetRequest** element.

.

##### 3.1.4.53.1.2 TransactionAnnotationsGetResponse

The **TransactionAnnotationsGetResponse** message contains the **TransactionAnnotationsGetResponse** element.

#### 3.1.4.53.2 Elements

The following XML schema element definitions are specific to the **TransactionAnnotationsGet** operation.

##### 3.1.4.53.2.1 TransactionAnnotationsGetRequest

The **TransactionAnnotationsGetRequest** element specifies the details of what is requested.

The following is the XML schema definition of the **TransactionAnnotationsGetRequest** element.

```
  <xs:element name="TransactionAnnotationsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**ServiceConnectionName**: Specifies the service connection name.

**TransactionId**: Specifies the ID of the transaction to which the annotations belong.

##### 3.1.4.53.2.2 TransactionAnnotationsGetResponse

The **TransactionAnnotationsGetResponse** element holds the details of the response.

The following is the XML schema definition of the **TransactionAnnotationsGetResponse** element.

```
  <xs:element name="TransactionAnnotationsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q72="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="Annotations" nillable="true" type="q72:ArrayOfAnnotation" />
        <xs:element xmlns:q73="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q73:OperationResult" />
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
```



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

**Annotations**: Specifies a collection of annotations that are returned by using the ArrayOfAnnotation complex type.

**OperationResult**: Specifies the OperationResult complex type.

**TransactionId**: Specifies the ID of the transaction whose annotations were returned.

### 3.1.4.54 TransactionsGet

The **TransactionsGet** operation retrieves all transactions for a model version or queries specific transactions by using specified criteria.

The following is the WSDL definition of the **TransactionsGet** operation.

```
    <wsdl:operation name="TransactionsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsGet" name="TransactionsGetRequest" message="tns:TransactionsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsGetResponse" name="TransactionsGetResponse" message="tns:TransactionsGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.54.1 Messages

The following XML schema message definitions are specific to the **TransactionsGet** operation.

##### 3.1.4.54.1.1 TransactionsGetRequest

The **TransactionsGetRequest** message contains the **TransactionsGetRequest** element.

##### 3.1.4.54.1.2 TransactionsGetResponse

The **TransactionsGetResponse** message contains the **TransactionsGetResponse** element.

#### 3.1.4.54.2 Elements

The following XML schema element definitions are specific to the **TransactionsGet** operation.

##### 3.1.4.54.2.1 TransactionsGetRequest

The **TransactionsGetRequest** element specifies the criteria in the TransactionSearchCriteria complex type for the retrieval of transactions.

The following is the XML schema definition of the **TransactionsGetRequest** element.

```
  <xs:element name="TransactionsGetRequest">
    <xs:complexType>
      <xs:sequence>
```



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```
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q41="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="TransactionSearchCriteria" nillable="true" type="q41:TransactionSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.54.2.2 TransactionsGetResponse

The **TransactionsGetResponse** element returns an operation result, the total number of transaction records returned, and an ArrayOfTransaction instance that contains the returned transactions.

The following is the XML schema definition of the **TransactionsGetResponse** element.

```
  <xs:element name="TransactionsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q42="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q42:OperationResult" />
        <xs:element minOccurs="0" name="TotalRecordCount" type="xs:int" />
        <xs:element xmlns:q43="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="TransactionList" nillable="true" type="q43:ArrayOfTransaction" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.54.3 Complex Types

The following XML schema complex type definitions are specific to the **TransactionsGet** operation.

#### 3.1.4.54.3.1 TransactionSearchCriteria

The **TransactionSearchCriteria** request complex type specifies the Transaction criteria for the operations result set.

The following is the XML schema definition of the **TransactionSearchCriteria** complex type.

```
  <xs:complexType name="TransactionSearchCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="AttributeId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="DateTimeBeginRange" nillable="true" type="xs:dateTime"
/>
      <xs:element minOccurs="0" name="DateTimeEndRange" nillable="true" type="xs:dateTime" />
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="ExplicitHierarchyId" nillable="true"
type="tns:Identifier" />
      <xs:element minOccurs="0" name="MemberId" nillable="true" type="tns:MemberIdentifier"
/>
      <xs:element minOccurs="0" name="MemberType" nillable="true" type="tns:MemberType" />
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="NewValue" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
      <xs:element minOccurs="0" name="PageSize" nillable="true" type="xs:int" />
      <xs:element minOccurs="0" name="PriorValue" nillable="true" type="xs:string" />
```



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```
      <xs:element minOccurs="0" name="SortColumn" nillable="true" type="xs:string" />
      <xs:element
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="SortDirection" nillable="true" type="q16:SortDirection" />
      <xs:element minOccurs="0" name="TransactionId" nillable="true" type="xs:int" />
      <xs:element
xmlns:q17="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="TransactionType" nillable="true" type="q17:TransactionType" />
      <xs:element minOccurs="0" name="UserId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**AttributeId**: Specifies an attribute ID.

**DateTimeBeginRange**: Specifies a beginning date/time filter.

**DateTimeEndRange**: Specifies an ending date/time filter.

**EntityId**: Specifies the GUID or the name of an entity to further restrict output.

**ExplicitHierarchyId**: Specifies an explicit hierarchy (for Move transactions).

**MemberId**: Specifies a member ID.

**MemberType**: Specifies a member type.

**ModelId**: Specifies the TransactionsGet operation to retrieve all transactions for a model version or to query specific transactions by using specified criteria.

**NewValue**: Specifies the new value after the transaction.

**PageNumber**: Specifies a page number.

**PageSize**: Specifies a page size.

**PriorValue**: Specifies a prior transaction value.

**SortColumn**: Specifies a sort column.

**SortDirection**: Specifies the sort direction of a sorted column.

**TransactionId**: Specifies a transaction ID.

**TransactionType**: Specifies a transaction type.

**UserId**: Specifies a user ID.

**VersionId**: Specifies the GUID or the exact name of a version.

### 3.1.4.55 TransactionsReverse

The **TransactionsReverse** operation reverses one or more transactions, in the order specified. When a transaction is reversed, it is set to its prior value. The transactions to reverse are specified by their transaction ID. Transactions and their IDs are retrieved by using TransactionsGet.

The following is the WSDL definition of the **TransactionsReverse** operation.



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```
    <wsdl:operation name="TransactionsReverse">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsReverse" name="TransactionsReverseRequest" message="tns:TransactionsReverseRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsReverseResponse" name="TransactionsReverseResponse"
message="tns:TransactionsReverseResponse" />
    </wsdl:operation>
```

#### 3.1.4.55.1 Messages

The following WSDL message definitions are specific to the **TransactionsReverse** operation.

##### 3.1.4.55.1.1 TransactionsReverseRequest

The **TransactionsReverseRequest** message contains the **TransactionsReverseRequest** element.

##### 3.1.4.55.1.2 TransactionsReverseResponse

The **TransactionsReverseResponse** message contains the **TransactionsReverseResponse** element.

#### 3.1.4.55.2 Elements

The following XML schema element definitions are specific to the **TransactionsReverse** operation.

##### 3.1.4.55.2.1 TransactionsReverseRequest

The **TransactionsReverseRequest** element specifies the transactions to reverse by using their transaction ID.

The following is the XML schema definition of the **TransactionsReverseRequest** element.

```
  <xs:element name="TransactionsReverseRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q44="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Transactions" nillable="true" type="q44:ArrayOfint" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

##### 3.1.4.55.2.2 TransactionsReverseResponse

The **TransactionsReverseResponse** element returns an operation result and an ArrayOfReplacementId<3> instance that contains the reversed transactions.

The following is the XML schema definition of the **TransactionsReverseResponse** element.



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```
  <xs:element name="TransactionsReverseResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q45="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q45:OperationResult" />
        <xs:element xmlns:q46="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="TransactionsReversed" nillable="true" type="q46:ArrayOfReplacementId" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.55.3 Complex Types

The following XML schema complex type definitions are specific to the **TransactionsReverse** operation.

##### 3.1.4.55.3.1 ArrayOfReplacementId

The **ArrayOfReplacementId**<4> response complex type contains the array of transaction IDs that were replaced during the replacement operation.

The following is the XML schema definition of the **ArrayOfReplacementId** complex type.

```
  <xs:complexType name="ArrayOfReplacementId">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ReplacementId" nillable="true"
type="tns:ReplacementId" />
    </xs:sequence>
  </xs:complexType>
```

**ReplacementId**: Specifies the instance of the ReplacementId<5> complex type that provides information about a reversed transaction.

##### 3.1.4.55.3.2 ReplacementId

The **ReplacementId**<6> response complex type specifies an individual transaction that was replaced during the replacement operation, including prior and new identifiers.

The following is the XML schema definition of the **ReplacementId** complex type.

```
  <xs:complexType name="ReplacementId">
    <xs:sequence>
      <xs:element minOccurs="0" name="NewId" type="xs:int" />
      <xs:element minOccurs="0" name="PriorId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
```

**NewId**: Specifies the new ID of the transaction that was reversed.

**PriorId**: Specifies the prior ID of the transaction that was reversed.



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### 3.1.4.56 UserPreferencesDelete

The **UserPreferencesDelete** operation deletes the current user's selected preferences within the MDS repository. One or more preferences can be specified for deletion by submitting a dictionary list. Or, all saved preferences can be deleted by setting **DeleteAllUserPreferences** to true.

The following is the WSDL definition of the **UserPreferencesDelete** operation.

```
    <wsdl:operation name="UserPreferencesDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesDelete" name="UserPreferencesDeleteRequest"
message="tns:UserPreferencesDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesDeleteResponse" name="UserPreferencesDeleteResponse"
message="tns:UserPreferencesDeleteResponse" />
    </wsdl:operation>
```

#### 3.1.4.56.1 Messages

The following XML schema message definitions are specific to the **UserPreferencesDelete** operation.

##### 3.1.4.56.1.1 UserPreferencesDeleteRequest

The **UserPreferencesDeleteRequest** request message contains the **UserPreferencesDeleteRequest** element.

##### 3.1.4.56.1.2 UserPreferencesDeleteResponse

The **UserPreferencesDeleteResponse** response message contains the **UserPreferencesDeleteResponse** element.

#### 3.1.4.56.2 Elements

The following XML schema element definitions are specific to the **UserPreferencesDelete** operation.

##### 3.1.4.56.2.1 UserPreferencesDeleteRequest

The **UserPreferencesDeleteRequest** request element may include one of the following:

- A **UserPreferences** property that contains one or more preference keys.
- The **DeleteAllUserPreferences** property, which specifies if deletion of all preferences for the current user should occur.

The following is the XML schema definition of the **UserPreferencesDeleteRequest** element.

```
<xs:element name="UserPreferencesDeleteRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="DeleteAllUserPreferences" type="xs:boolean" />
```



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```
        <xs:element xmlns:q137="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q137:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**DeleteAllUserPreferences**: Specifies a **Boolean** that causes the deletion of all preferences for the current user when it is set to true.

**UserPreferences**: Specifies an ArrayOfKeyValueOfstringstring complex type that contains key/value pairs.

#### 3.1.4.56.2.2 UserPreferencesDeleteResponse

The **UserPreferencesDeleteResponse** response element provides only standard operation results.

The following is the XML schema definition of the **UserPreferencesDeleteResponse** element.

```
  <xs:element name="UserPreferencesDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q138="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q138:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

### 3.1.4.57 UserPreferencesGet

The **UserPreferencesGet** operation retrieves the current user's preferences that were previously saved within the MDS repository. User preferences support persistent storage of user state properties where appropriate. This operation requires no input criteria and retrieves all preference settings that are available for the current user.

The following is the WSDL definition of the **UserPreferencesGet** operation.

```
    <wsdl:operation name="UserPreferencesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesGet" name="UserPreferencesGetRequest" message="tns:UserPreferencesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesGetResponse" name="UserPreferencesGetResponse"
message="tns:UserPreferencesGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.57.1 Messages

The following XML schema message definitions are specific to the **UserPreferencesGet** operation.



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#### 3.1.4.57.1.1 UserPreferencesGetRequest

The **UserPreferencesGetRequest** request message contains the **UserPreferencesGetRequest** element.

#### 3.1.4.57.1.2 UserPreferencesGetResponse

The **UserPreferencesGetResponse** response message contains the **UserPreferencesGetResponse** element.

### 3.1.4.57.2 Elements

The following XML schema element definitions are specific to the **UserPreferencesGet** operation.

#### 3.1.4.57.2.1 UserPreferencesGetRequest

The **UserPreferencesGetRequest** request element contains no input parameters.

The following is the XML schema definition of the **UserPreferencesGetRequest** element.

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

#### 3.1.4.57.2.2 UserPreferencesGetResponse

The **UserPreferencesGetResponse** response element returns an array of key/value pairs that represent the user preference settings and their current values.

The following is the XML schema definition of the **UserPreferencesGetResponse** element.

```
  <xs:element name="UserPreferencesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q133="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q133:OperationResult" />
        <xs:element xmlns:q134="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q134:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperatonResult**: Specifies the OperationResult complex type.

**UserPreferences**: Specifies an ArrayOfKeyValueOfstringstring complex type that contains key/value pairs.



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### 3.1.4.58 UserPreferencesUpdate

The **UserPreferencesUpdate** operation updates the current user's preferences within the MDS repository. User preferences support persistent storage of user state properties where appropriate.

The following is the WSDL definition of the **UserPreferencesUpdate** operation.

```
    <wsdl:operation name="UserPreferencesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesUpdate" name="UserPreferencesUpdateRequest"
message="tns:UserPreferencesUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesUpdateResponse" name="UserPreferencesUpdateResponse"
message="tns:UserPreferencesUpdateResponse" />
    </wsdl:operation>
```

#### 3.1.4.58.1 Messages

The following XML schema message definitions are specific to the **UserPreferencesUpdate** operation.

##### 3.1.4.58.1.1 UserPreferencesUpdateRequest

The **UserPreferencesUpdateRequest** request message contains the **UserPreferencesUpdateRequest** element.

##### 3.1.4.58.1.2 UserPreferencesUpdateResponse

The **UserPreferencesUpdateResponse** response message contains the **UserPreferencesUpdateResponse** element.

#### 3.1.4.58.2 Elements

The following XML schema element definitions are specific to the **UserPreferencesUpdate** operation.

##### 3.1.4.58.2.1 UserPreferencesUpdateRequest

The **UserPreferencesUpdateRequest** request element MUST include a **UserPreferences** property that has one or more preference settings as key/value pairs.

The following is the XML schema definition of the **UserPreferencesUpdateRequest** element.

```
  <xs:element name="UserPreferencesUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q135="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q135:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```



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**UserPreferences**: Specifies an ArrayOfKeyValueOfstringstring complex type that contains key/value pairs.

#### 3.1.4.58.2.2 UserPreferencesUpdateResponse

The **UserPreferencesUpdateResponse** response element provides only standard operation results.

The following is the XML schema definition of the **UserPreferencesUpdateResponse** element.

```
  <xs:element name="UserPreferencesUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q136="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q136:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.59 ValidationGet

The **ValidationGet** operation retrieves validation issues for an entire model version's members or selected members by using specified criteria.

The following is the WSDL definition of the **ValidationGet** operation.

```
    <wsdl:operation name="ValidationGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationGet" name="ValidationGetRequest" message="tns:ValidationGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationGetResponse" name="ValidationGetResponse" message="tns:ValidationGetResponse" />
    </wsdl:operation>
```

#### 3.1.4.59.1 Messages

The following WSDL message definitions are specific to the **ValidationGet** operation.

##### 3.1.4.59.1.1 ValidationGetRequest

The **ValidationGetRequest** message contains the **ValidationGetRequest** element**.**

##### 3.1.4.59.1.2 ValidationGetResponse

The **ValidationGetResponse** message contains the **ValidationGetResponse** element.

#### 3.1.4.59.2 Elements

The following XML schema element definitions are specific to the **ValidationGet** operation.



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#### 3.1.4.59.2.1 ValidationGetRequest

The **ValidationGetRequest** element describes what validation information is requested.

The following is the XML schema definition of the **ValidationGetRequest** element.

```
  <xs:element name="ValidationGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q47="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationSearchCriteria" nillable="true" type="q47:ValidationSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

#### 3.1.4.59.2.2 ValidationGetResponse

The **ValidationGetResponse** element holds the response values for the **ValidationGetRequest**.

The following is the XML schema definition of the **ValidationGetResponse** element.

```
  <xs:element name="ValidationGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsRunning" type="xs:boolean" />
        <xs:element xmlns:q48="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q48:OperationResult" />
        <xs:element xmlns:q49="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="SummaryItems" nillable="true" type="q49:ArrayOfValidationSummaryItem" />
        <xs:element xmlns:q50="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationIssueList" nillable="true" type="q50:ArrayOfValidationIssue" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.4.59.3 Complex Types

The following XML schema complex type definitions are specific to the **ValidationGet** operation.

#### 3.1.4.59.3.1 ValidationSearchCriteria

The **ValidationSearchCriteria** complex type specifies the search criteria for ValidationGetRequest.

The following is the XML schema definition of the **ValidationSearchCriteria** complex type.

```
  <xs:complexType name="ValidationSearchCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="MemberTypeId" nillable="true" type="tns:MemberType" />
      <xs:element minOccurs="0" name="Members" nillable="true"
type="tns:ArrayOfMemberIdentifier" />
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="UserId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
```



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

**EntityId**: Specifies the GUID or the name of an entity to further restrict output.

**MemberTypeId**: Specifies a MemberType: Leaf, consolidation, or collection.

**Members**: Specifies member codes (in combination with Entity) to retrieve transactions for one or more specific members.

**ModelId**: Specifies the GUID or the exact name of a model.

**UserId**: Specifies the user. Issues are assigned to all users who can correct them.

**VersionId**: Specifies the GUID or the exact name of a version.

### 3.1.4.59.3.2 ArrayOfValidationSummaryItem

The **ArrayOfValidationSummaryItem** complex type specifies a collection of ValidationSummaryItem complex types.

The following is the XML schema definition of the **ArrayOfValidationSummaryItem** complex type.

```
  <xs:complexType name="ArrayOfValidationSummaryItem">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ValidationSummaryItem"
nillable="true" type="tns:ValidationSummaryItem" />
    </xs:sequence>
  </xs:complexType>
```

**ValidationSummaryItem**: Specifies the **ValidationSummaryItem** complex type.

### 3.1.4.59.3.3 ValidationSummaryItem

The **ValidationSummaryItem** complex type describes the validation summary information.

The following is the XML schema definition of the **ValidationSummaryItem** complex type.

```
<xs:complexType name="ValidationSummaryItem">
    <xs:sequence>
      <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
      <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.Office.MDM.Services.DataContract
s" minOccurs="0" name="Status" type="q19:ValidationStatus" />
    </xs:sequence>
  </xs:complexType>
```

**MemberCount**: Specifies the count of the members that were validated.

**Status**: Specifies the status of the validation process at any given moment during the validation process.



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### 3.1.4.60 ValidationProcess

The **ValidationProcess** operation is used to process validations (business rules) for selected members within a model.

The following is the WSDL definition of the **ValidationProcess** operation.

```
    <wsdl:operation name="ValidationProcess">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationProcess" name="ValidationProcessRequest" message="tns:ValidationProcessRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationProcessResponse" name="ValidationProcessResponse"
message="tns:ValidationProcessResponse" />
    </wsdl:operation>
```

#### 3.1.4.60.1 Messages

The following WSDL message definitions are specific to the **ValidationProcess** operation.

##### 3.1.4.60.1.1 ValidationProcessRequest

The **ValidationProcessRequest** message contains the **ValidationProcessRequest** element.

##### 3.1.4.60.1.2 ValidationProcessResponse

The **ValidationProcessResponse** message contains the **ValidationProcessResponse** element.

#### 3.1.4.60.2 Elements

The following XML schema element definitions are specific to the **ValidationProcess** operation.

##### 3.1.4.60.2.1 ValidationProcessRequest

The **ValidationProcessRequest** element specifies the validation process criteria and options.

The following is the XML schema definition of the **ValidationProcessRequest** element.

```
  <xs:element name="ValidationProcessRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ServiceConnectionName" nillable="true"
type="xs:string" />
        <xs:element xmlns:q51="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationProcessCriteria" nillable="true" type="q51:ValidationProcessCriteria" />
        <xs:element xmlns:q52="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationProcessOptions" nillable="true" type="q52:ValidationProcessOptions" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**ServiceConnectionName**: Specifies the service connection name.

**ValidationProcessCriteria**: Specifies the ValidationProcessCriteria complex type.



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**ValidationProcessOptions**: Specifies the ValidationProcessOptions complex type.

#### 3.1.4.60.2.2 ValidationProcessResponse

The **ValidationProcessResponse** element holds the response values back from the validation process.

The following is the XML schema definition of the **ValidationProcessResponse** element.

```
  <xs:element name="ValidationProcessResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q53="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="OperationResult" nillable="true" type="q53:OperationResult" />
        <xs:element xmlns:q54="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationIssueList" nillable="true" type="q54:ArrayOfValidationIssue" />
        <xs:element xmlns:q55="http://schemas.microsoft.com/office/mdm/2007/11" minOccurs="0"
name="ValidationProcessResult" nillable="true" type="q55:ValidationProcessResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**OperationResult**: Specifies the OperationResult complex type.

**ArrayOfValidationIssue**: Specifies the ArrayOfValidationIssue complex type.

**ValidationProcessResult**: Specifies the ValidationProcessResult complex type.

### 3.1.4.60.3 Complex Types

The following XML schema complex type definitions are specific to the **ValidationProcess** operation.

#### 3.1.4.60.3.1 ValidationProcessCriteria

The **ValidationProcessCriteria** complex type specifies validation process criteria, such as members, to be validated.

The following is the XML schema definition of the **ValidationProcessCriteria** complex type.

```
  <xs:complexType name="ValidationProcessCriteria">
    <xs:sequence>
      <xs:element minOccurs="0" name="EntityId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="Members" nillable="true"
type="tns:ArrayOfMemberIdentifier" />
      <xs:element minOccurs="0" name="ModelId" nillable="true" type="tns:Identifier" />
      <xs:element minOccurs="0" name="VersionId" nillable="true" type="tns:Identifier" />
    </xs:sequence>
  </xs:complexType>
```

**EntityId**: Specifies the GUID or the name of an entity to further restrict output.

**Members**: Specifies member codes (together with Entity) to retrieve transactions for one or more specific members.

**ModelId**: Specifies the GUID or the exact name of a model.



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**VersionId**: Specifies the GUID or the exact name of a version.

#### 3.1.4.60.3.2 ValidationProcessOptions

The **ValidationProcessOptions** complex type specifies the following validation process options:

- Whether to commit the version after validation
- Whether to return the validation results

The following is the XML schema definition of the **ValidationProcessOptions** complex type.

```
<xs:complexType name="ValidationProcessOptions">
  <xs:sequence>
    <xs:element minOccurs="0" name="CommitVersion" type="xs:boolean" />
    <xs:element minOccurs="0" name="ReturnValidationResults" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**CommitVersion**: Specifies whether the version being validated is committed after validation.

**ReturnValidationResults**: Specifies whether the validation results are returned after validation.

#### 3.1.4.60.3.3 ValidationProcessResult

The **ValidationProcessResult** complex type holds the validation process results.

The following is the XML schema definition of the **ValidationProcessResult** complex type.

```
<xs:complexType name="ValidationProcessResult">
  <xs:sequence>
    <xs:element minOccurs="0" name="MembersInvalidCount" type="xs:int" />
    <xs:element minOccurs="0" name="MembersValidCount" type="xs:int" />
    <xs:element minOccurs="0" name="MembersValidatedCount" type="xs:int" />
  </xs:sequence>
</xs:complexType>
```

**MembersInvalidCount**: Specifies the number of members that are found to be invalid during validation.

**MembersValidCount**: Specifies the number of members that are found to be valid during validation.

**MembersValidatedCount**: Specifies the number of members that are validated as part of the validation process.

### 3.1.4.61 VersionCopy

The **VersionCopy** operation copies an existing version, including all data, to a new version.

The version to be copied MUST be specified by the version GUID, by using the **FromVersionId** parameter. The target version name MUST be specified by **ToVersionName**, and the target version description MUST be specified by **ToVersionDescription**.

The target name MUST not exist. A pre-existing target name results in an error and no copy.



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The operation checks the **CopyOnlyCommittedVersion** system setting and does not copy an uncommitted version if not allowed.

The following is the WSDL definition of the **VersionCopy** operation.

```
    <wsdl:operation name="VersionCopy">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versi
onCopy" name="VersionCopyRequest" message="tns:VersionCopyRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versi
onCopyResponse" name="VersionCopyResponse" message="tns:VersionCopyResponse" />
    </wsdl:operation>
```

#### 3.1.4.61.1 Messages

The following WSDL message definitions are specific to the **VersionCopy** operation.

##### 3.1.4.61.1.1 VersionCopyRequest

The **VersionCopyRequest** request message contains the **VersionCopyRequest** element.

##### 3.1.4.61.1.2 VersionCopyResponse

The **VersionCopyResponse** response message contains the **VersionCopyResponse** element.

#### 3.1.4.61.2 Elements

The following XML schema element definitions are specific to the **VersionCopy** operation.

##### 3.1.4.61.2.1 VersionCopyRequest

The **VersionCopyRequest** request element MUST include the **FromVersionId** property as a GUID. It MUST also include the following string properties:

- **ToVersionDescription**
- **ToVersionName**

The following is the XML schema definition of the **VersionCopyRequest** element.

```
  <xs:element name="VersionCopyRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q131="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="FromVersionId" type="q131:guid" />
        <xs:element minOccurs="1" name="ToVersionDescription" nillable="true"
type="xs:string" />
        <xs:element minOccurs="1" name="ToVersionName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

**FromVersionId**: Specifies a GUID that identifies the version to copy.



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**ToVersionDescription**: Specifies a string that contains the description of the new version.

**ToVersionName**: Specifies a string that contains the name of the new version.

#### 3.1.4.61.2.2 VersionCopyResponse

The **VersionCopyResponse** response element provides only standard operation results.

The following is the XML schema definition of the **VersionCopyResponse** element.

```
  <xs:element name="VersionCopyResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q132="http://schemas.microsoft.com/office/mdm/2007/11"
minOccurs="0" name="OperationResult" nillable="true" type="q132:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

### 3.1.5 Timer Events

None.

### 3.1.6 Other Local Events

None.



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# 4 Protocol Examples

## 4.1 Metadata Example

### 4.1.1 Create Model using MetadataCreate

In the following example, a client sends a MetadataCreate request message that is populated with a model. This request could also contain the following:

- Entity
- Attributes
- Explicit hierarchies
- Derived hierarchy
- Attribute groups

#### 4.1.1.1 Client Sends Request

```
<httpRequest>
<headers>
<httpheader>
<name>Content-Type</name>
<value>text/xml; charset=utf-8</value>
</httpheader>
<httpheader>
<name>SOAPAction</name>
<value>http://tempuri.org/IService/MetadataCreate</value>
</httpheader>
</headers>
<body>
<a:Model>
<a:Identifier>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:Identifier>
</a:Model>
</body>
<method>POST</method>
<code>0</code>
</httpRequest>
```

#### 4.1.1.2 Server Response

```
<httpResponse>
  <headers>
    <httpheader>
      <name>Content-Type</name>
      <value>text/xml; charset=utf-8</value>
    </httpheader>
    <httpheader>
```



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```
          <name>SOAPAction</name>
          <value>http://tempuri.org/IService/MetadataCreate</value>
        </httpheader>
      </headers>
      <body><a:Model>
<a:Identifier>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:Identifier>
</a:Model>
</body>
      <code>0</code>
    </httpResponse>
```

## 4.2 Business Rule Example

### 4.2.1 Create Business Rule using BusinessRulesCreate

In the following example, the client sends a BusinessRulesCreate request to create a new business rule with the MDS system.

#### 4.2.1.1 Client Sends Request

The client sends the following request.

```
  <operation>BusinessRulesCreate</operation>
  <message>BusinessRulesCreateRequest</message>
- <httpRequest>
- <headers>
- <httpheader>
  <name>Content-Type</name>
  <value>text/xml; charset=utf-8</value>
  </httpheader>
- <httpheader>
  <name>SOAPAction</name>
  <value>http://tempuri.org/IService/BusinessRulesCreate</value>
  </httpheader>
  </headers>
  <body><?xml version="1.0" encoding="utf-8"?><soap:Envelope
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"><soap:Header><International
xmlns="http://www.w3.org/2005/09/ws-i18n"><Locale>
1101</Locale><Tz><Tz></International></soap:Header><soap:Body><BusinessRulesCreateRequest
xmlns="http://tempuri.org/"> <businessRuleSet
xmlns:a="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09">
<a:BRActions/>
<a:BRConditionTreeNodes/>
<a:BRConditions/>
<a:BusinessRules>
<a:BusinessRule>
<a:AuditInfo i:nil="true"/>
<a:BRActions>
<a:BRAction>
<a:AuditInfo i:nil="true"/>
```



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```
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:Identifier>
<a:Id>34698d50-fe15-4316-963d-728729a08c4c</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>1</a:InternalId>
</a:Identifier>
<a:Operator>Invalid</a:Operator>
<a:PostfixArguments xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
<a:Sequence>1</a:Sequence>
<a:Text>Name is not valid </a:Text>
<a:PrefixArgument>
<a:Identifier>
<a:Id>f6f9966a-0178-42ea-b500-615a58993a8e</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>1</a:InternalId>
</a:Identifier>
<a:PropertyName>Anchor</a:PropertyName>
<a:AttributeId>
<a:Id>9aee1007-501f-4911-a49e-c66514727a9d</a:Id>
<a:Name>Name</a:Name>
<a:InternalId>1202</a:InternalId>
</a:AttributeId>
<a:ChildArguments/>
</a:PrefixArgument>
</a:BRAction>
</a:BRActions>
<a:BRConditionTree>
<a:AuditInfo i:nil="true"/>
<a:BRConditions>
<a:BRCondition>
<a:AuditInfo i:nil="true"/>
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
```



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```
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:Identifier>
<a:Id>1d3c2c1f-f5e6-4915-8a5b-d982a7d22986</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:Operator>IsEqual</a:Operator>
<a:PostfixArguments xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
<b:anyType i:type="a:BRFreeformArgument">
<a:Identifier>
<a:Id>50f17e5c-fc6c-42b7-a29c-bdaab20aca96</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:Identifier>
<a:PropertyName>Value</a:PropertyName>
<a:Value>Test</a:Value>
</b:anyType>
</a:PostfixArguments>
<a:Sequence>1</a:Sequence>
<a:Text>Name is equal to Test</a:Text>
<a:ConditionTreeNodeId>
<a:Id>a0027764-6879-42ba-b4c4-50da4617d170</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:ConditionTreeNodeId>
<a:PrefixArgument i:type="a:BRAttributeArgument">
<a:Identifier>
<a:Id>4d69bae4-d580-4d26-a7e5-fe3a5c17f9a9</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:PropertyName>Anchor</a:PropertyName>
<a:AttributeId>
<a:Id>9aee1007-501f-4911-a49e-c66514727a9d</a:Id>
<a:Name>Name</a:Name>
<a:InternalId>1202</a:InternalId>
</a:AttributeId>
<a:ChildArguments/>
</a:PrefixArgument>
</a:BRCondition>
</a:BRConditions>
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
```



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```
<a:ConditionTreeChildNodes/>
<a:ConditionTreeParentNode>
<a:Id>00000000-0000-0000-0000-000000000000</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>0</a:InternalId>
</a:ConditionTreeParentNode>
<a:Identifier>
<a:Id>a0027764-6879-42ba-b4c4-50da4617d170</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:Identifier>
<a:LogicalOperator>And</a:LogicalOperator>
<a:Sequence>1</a:Sequence>
</a:BRConditionTree>
<a:Description/>
<a:Identifier>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:Identifier>
<a:NotificationGroup i:nil="true"/>
<a:NotificationUser i:nil="true"/>
<a:Priority>10</a:Priority>
<a:RuleActionText>
Name is not valid &#xD;
</a:RuleActionText>
<a:RuleConditionText>Name is equal to Test</a:RuleConditionText>
<a:Status>PendingChanges</a:Status>
</a:BusinessRule>
<a:BusinessRule>
<a:AuditInfo i:nil="true"/>
<a:BRActions/>
<a:BRConditionTree>
<a:AuditInfo i:nil="true"/>
<a:BRConditions/>
<a:BusinessRuleId>
<a:Id>35005d23-7dfb-4e91-9e3a-85495e77f86a</a:Id>
<a:Name>New rule (1)</a:Name>
<a:InternalId>2</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>5c8ab307-1420-453d-a7d0-d85f8fe3f83a</a:Id>
<a:Name>Country</a:Name>
<a:InternalId>39</a:InternalId>
```



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```
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:ConditionTreeChildNodes/>
<a:ConditionTreeParentNode>
<a:Id>00000000-0000-0000-0000-000000000000</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>0</a:InternalId>
</a:ConditionTreeParentNode>
<a:Identifier>
<a:Id>6d15692b-a5b8-479e-95ec-b7b2d3a16f05</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:LogicalOperator>And</a:LogicalOperator>
<a:Sequence>1</a:Sequence>
</a:BRConditionTree>
<a:Description/>
<a:Identifier>
<a:Id>35005d23-7dfb-4e91-9e3a-85495e77f86a</a:Id>
<a:Name>New rule (1)</a:Name>
<a:InternalId>2</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>5c8ab307-1420-453d-a7d0-d85f8fe3f83a</a:Id>
<a:Name>Country</a:Name>
<a:InternalId>39</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:Identifier>
<a:NotificationGroup i:nil="true"/>
<a:NotificationUser i:nil="true"/>
<a:Priority>10</a:Priority>
<a:RuleActionText/>
<a:RuleConditionText>None</a:RuleConditionText>
<a:Status>Undefined</a:Status>
</a:BusinessRule>
</a:BusinessRules>
</businessRuleSet></BusinessRulesCreateRequest></soap:Body></soap:Envelope></body>
  <method>POST</method>
  <code>0</code>
  </httpRequest>
```

### 4.2.1.2 Server Response

If the business rule is successfully created, the server responds with the following message.

```
<httpResponse>
  <headers>
    <httpheader>
      <name>Content-Type</name>
      <value>text/xml; charset=utf-8</value>
```



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```
        </httpheader>
        <httpheader>
          <name>SOAPAction</name>
          <value>http://tempuri.org/IService/MetadataCreate</value>
        </httpheader>
      </headers>
      <body>&<?xml version="1.0" encoding="utf-8"?><soap:Envelope
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"><soap:Header><International
xmlns="http://www.w3.org/2005/09/ws-i18n"><Locale>
1101</Locale><Tz><Tz></International></soap:Header><soap:Body><BusinessRulesCreateRequest
xmlns="http://tempuri.org/"> <businessRuleSet
xmlns:a="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09">
<a:BRActions/>
<a:BRConditionTreeNodes/>
<a:BRConditions/>
<a:BusinessRules>
<a:BusinessRule>
<a:AuditInfo i:nil="true"/>
<a:BRActions>
<a:BRAction>
<a:AuditInfo i:nil="true"/>
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:Identifier>
<a:Id>34698d50-fe15-4316-963d-728729a08c4c</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>1</a:InternalId>
</a:Identifier>
<a:Operator>Invalid</a:Operator>
<a:PostfixArguments xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
<a:Sequence>1</a:Sequence>
<a:Text>Name is not valid </a:Text>
<a:PrefixArgument>
<a:Identifier>
<a:Id>f6f9966a-0178-42ea-b500-615a58993a8e</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>1</a:InternalId>
</a:Identifier>
<a:PropertyName>Anchor</a:PropertyName>
<a:AttributeId>
<a:Id>9aee1007-501f-4911-a49e-c66514727a9d</a:Id>
<a:Name>Name</a:Name>
<a:InternalId>1202</a:InternalId>
```



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```
</a:AttributeId>
<a:ChildArguments/>
</a:PrefixArgument>
</a:BRAction>
</a:BRActions>
<a:BRConditionTree>
<a:AuditInfo i:nil="true"/>
<a:BRConditions>
<a:BRCondition>
<a:AuditInfo i:nil="true"/>
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:Identifier>
<a:Id>1d3c2c1f-f5e6-4915-8a5b-d982a7d22986</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:Operator>IsEqual</a:Operator>
<a:PostfixArguments xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
<b:anyType i:type="a:BRFreeformArgument">
<a:Identifier>
<a:Id>50f17e5c-fc6c-42b7-a29c-bdaab20aca96</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:Identifier>
<a:PropertyName>Value</a:PropertyName>
<a:Value>Test</a:Value>
</b:anyType>
</a:PostfixArguments>
<a:Sequence>1</a:Sequence>
<a:Text>Name is equal to Test</a:Text>
<a:ConditionTreeNodeId>
<a:Id>a0027764-6879-42ba-b4c4-50da4617d170</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:ConditionTreeNodeId>
<a:PrefixArgument i:type="a:BRAttributeArgument">
<a:Identifier>
<a:Id>4d69bae4-d580-4d26-a7e5-fe3a5c17f9a9</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:PropertyName>Anchor</a:PropertyName>
<a:AttributeId>
<a:Id>9aee1007-501f-4911-a49e-c66514727a9d</a:Id>
```



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```
<a:Name>Name</a:Name>
<a:InternalId>1202</a:InternalId>
</a:AttributeId>
<a:ChildArguments/>
</a:PrefixArgument>
</a:BRCondition>
</a:BRConditions>
<a:BusinessRuleId>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:ConditionTreeChildNodes/>
<a:ConditionTreeParentNode>
<a:Id>00000000-0000-0000-0000-000000000000</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>0</a:InternalId>
</a:ConditionTreeParentNode>
<a:Identifier>
<a:Id>a0027764-6879-42ba-b4c4-50da4617d170</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>3</a:InternalId>
</a:Identifier>
<a:LogicalOperator>And</a:LogicalOperator>
<a:Sequence>1</a:Sequence>
</a:BRConditionTree>
<a:Description/>
<a:Identifier>
<a:Id>236ed0eb-fc18-4e7e-a851-ebad9b5b63f4</a:Id>
<a:Name>InvalidateAllMembers</a:Name>
<a:InternalId>1</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>d92aee50-ec66-4b0f-bfce-990df7fa60c9</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>31</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:Identifier>
<a:NotificationGroup i:nil="true"/>
<a:NotificationUser i:nil="true"/>
<a:Priority>10</a:Priority>
<a:RuleActionText>
Name is not valid &#xD;
```



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```
</a:RuleActionText>
<a:RuleConditionText>Name is equal to Test</a:RuleConditionText>
<a:Status>PendingChanges</a:Status>
</a:BusinessRule>
<a:BusinessRule>
<a:AuditInfo i:nil="true"/>
<a:BRActions/>
<a:BRConditionTree>
<a:AuditInfo i:nil="true"/>
<a:BRConditions/>
<a:BusinessRuleId>
<a:Id>35005d23-7dfb-4e91-9e3a-85495e77f86a</a:Id>
<a:Name>New rule (1)</a:Name>
<a:InternalId>2</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>5c8ab307-1420-453d-a7d0-d85f8fe3f83a</a:Id>
<a:Name>Country</a:Name>
<a:InternalId>39</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:BusinessRuleId>
<a:ConditionTreeChildNodes/>
<a:ConditionTreeParentNode>
<a:Id>00000000-0000-0000-0000-000000000000</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>0</a:InternalId>
</a:ConditionTreeParentNode>
<a:Identifier>
<a:Id>6d15692b-a5b8-479e-95ec-b7b2d3a16f05</a:Id>
<a:Name i:nil="true"/>
<a:InternalId>2</a:InternalId>
</a:Identifier>
<a:LogicalOperator>And</a:LogicalOperator>
<a:Sequence>1</a:Sequence>
</a:BRConditionTree>
<a:Description/>
<a:Identifier>
<a:Id>35005d23-7dfb-4e91-9e3a-85495e77f86a</a:Id>
<a:Name>New rule (1)</a:Name>
<a:InternalId>2</a:InternalId>
<a:ModelId>
<a:Id>91356739-5271-4162-848d-03fe56549ea2</a:Id>
<a:Name>Product</a:Name>
<a:InternalId>7</a:InternalId>
</a:ModelId>
<a:EntityId>
<a:Id>5c8ab307-1420-453d-a7d0-d85f8fe3f83a</a:Id>
<a:Name>Country</a:Name>
<a:InternalId>39</a:InternalId>
</a:EntityId>
<a:MemberType>Leaf</a:MemberType>
</a:Identifier>
<a:NotificationGroup i:nil="true"/>
<a:NotificationUser i:nil="true"/>
```



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```
<a:Priority>10</a:Priority>
<a:RuleActionText/>
<a:RuleConditionText>None</a:RuleConditionText>
<a:Status>Undefined</a:Status>
</a:BusinessRule>
</a:BusinessRules>
</businessRuleSet></BusinessRulesCreateRequest></soap:Body></soap:Envelope>
<ReturnCreatedIdentifiers>1</ReturnCreatedIdentifiers>
</body>
      <code>0</code>
    </httpResponse>
```



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# 5 Security

## 5.1 Security Considerations for Implementers

The server might be returning potentially sensitive data in its responses. Therefore, it is strongly recommended that the server be configured to use GSS-API based encryption over TCP or Secure Sockets Layer (SSL) over HTTPS to ensure the integrity of the data and to prevent tampering and unauthorized access.

There are two strategies for reducing the impact of denial-of-service (DOS) attacks against the server. These strategies are as follows:

- Authentication is enabled, and access is denied to unauthenticated clients. This process allows a user to quickly disable access to rogue client machines. Authentication is always enabled for the MDS service.
- No single request takes too much processing time on the server. This ensures that any attacker must keep up a steady stream of requests to deny access to the server. Therefore, a simple network trace allows the attacking machine to be identified and shut down. This process applies to requests that are sent by "spoof clients" (for example, a virus that emulates a client. This virus might try to pass an unbounded request or a long-running MDX query).

## 5.2 Index of Security Parameters

None.



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# 6 Appendix A: Full WSDL

| WSDL or schema name | Prefix | Section |
|---|---|---|
| Master Data Services WSDL | wsp: | 6.1 |
| Master Data Services Schema | xs: | 6.2 |
| International Schema | xs: | 6.3 |
| Serialization Schema | xs: | 6.4 |
| Serialization Arrays Schema | xs: | 6.5 |
| Data Contracts Schema | xs: | 6.6 |
| System Schema | xs: | 6.7 |

For ease of implementation, the full WSDLs and schemas are provided in the following sections.

## 6.1 Master Data Services WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsx="http://schemas.xmlsoap.org/ws/2004/09/mex"
xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:tns="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns:wsa10="http://www.w3.org/2005/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" name="Service"
targetNamespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="WSHttpBinding_IService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SymmetricBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:ProtectionToken>
              <wsp:Policy>
                <sp:SecureConversationToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRe
cipient">
                  <wsp:Policy>
                    <sp:RequireDerivedKeys />
                    <sp:BootstrapPolicy>
                      <wsp:Policy>
                        <sp:SignedParts>
                          <sp:Body />
                          <sp:Header Name="To"
Namespace="http://www.w3.org/2005/08/addressing" />
                          <sp:Header Name="From"
Namespace="http://www.w3.org/2005/08/addressing" />
```



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```
                        <sp:Header Name="FaultTo"
Namespace="http://www.w3.org/2005/08/addressing" />
                        <sp:Header Name="ReplyTo"
Namespace="http://www.w3.org/2005/08/addressing" />
                        <sp:Header Name="MessageID"
Namespace="http://www.w3.org/2005/08/addressing" />
                        <sp:Header Name="RelatesTo"
Namespace="http://www.w3.org/2005/08/addressing" />
                        <sp:Header Name="Action"
Namespace="http://www.w3.org/2005/08/addressing" />
                      </sp:SignedParts>
                      <sp:EncryptedParts>
                        <sp:Body />
                      </sp:EncryptedParts>
                      <sp:SymmetricBinding>
                        <wsp:Policy>
                          <sp:ProtectionToken>
                            <wsp:Policy>
                              <sp:SpnegoContextToken
sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRe
cipient">
                                <wsp:Policy>
                                  <sp:RequireDerivedKeys />
                                </wsp:Policy>
                              </sp:SpnegoContextToken>
                            </wsp:Policy>
                          </sp:ProtectionToken>
                          <sp:AlgorithmSuite>
                            <wsp:Policy>
                              <sp:Basic256 />
                            </wsp:Policy>
                          </sp:AlgorithmSuite>
                          <sp:Layout>
                            <wsp:Policy>
                              <sp:Strict />
                            </wsp:Policy>
                          </sp:Layout>
                          <sp:IncludeTimestamp />
                          <sp:EncryptSignature />
                          <sp:OnlySignEntireHeadersAndBody />
                        </wsp:Policy>
                      </sp:SymmetricBinding>
                      <sp:Wss11>
                        <wsp:Policy />
                      </sp:Wss11>
                      <sp:Trust10>
                        <wsp:Policy>
                          <sp:MustSupportIssuedTokens />
                          <sp:RequireClientEntropy />
                          <sp:RequireServerEntropy />
                        </wsp:Policy>
                      </sp:Trust10>
                    </wsp:Policy>
                  </sp:BootstrapPolicy>
                </wsp:Policy>
              </sp:SecureConversationToken>
            </wsp:Policy>
          </sp:ProtectionToken>
          <sp:AlgorithmSuite>
```



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```
            <wsp:Policy>
              <sp:Basic256 />
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict />
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp />
          <sp:EncryptSignature />
          <sp:OnlySignEntireHeadersAndBody />
        </wsp:Policy>
      </sp:SymmetricBinding>
      <sp:Wss11 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy />
      </sp:Wss11>
      <sp:Trust10 xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:MustSupportIssuedTokens />
          <sp:RequireClientEntropy />
          <sp:RequireServerEntropy />
        </wsp:Policy>
      </sp:Trust10>
      <wsaw:UsingAddressing />
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsUpdate_Input_policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
        <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
      </sp:SignedParts>
      <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
        <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
      </sp:EncryptedParts>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsUpdate_output_policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
        <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
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        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_MetadataUpdate_output_policy">
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      <wsp:All>
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        </sp:EncryptedParts>
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  </wsp:Policy>
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          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMemberAttributesGet_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_HierarchyMembersGet_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
```



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```
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_HierarchyMembersGet_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
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          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ModelMembersGet_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ModelMembersGet_output_policy">
    <wsp:ExactlyOne>
```



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      <wsp:All>
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        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersCreate_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
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          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
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          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
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      <wsp:All>
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          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersDelete_Input_policy">
    <wsp:ExactlyOne>
```



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```
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
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          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
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          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
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        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersUpdate_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
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          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
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        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
```



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```
<wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersUpdate_output_policy">
  <wsp:ExactlyOne>
    <wsp:All>
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        <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
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        <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
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      <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
      </sp:EncryptedParts>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersCopy_Input_policy">
  <wsp:ExactlyOne>
    <wsp:All>
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        <sp:Body />
        <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
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        <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
        <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
      </sp:SignedParts>
      <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
        <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
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    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
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    <wsp:All>
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        <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
      </sp:SignedParts>
      <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <sp:Body />
      </sp:EncryptedParts>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
```



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```
<wsp:Policy wsu:Id="WSHttpBinding_IService_EntityMembersMerge_Input_policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
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  </wsp:ExactlyOne>
</wsp:Policy>
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    <wsp:All>
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    </wsp:All>
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          <sp:Body />
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  </wsp:Policy>
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</wsp:Policy>
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          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_StagingProcess_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewCreate_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
```



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```
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewCreate_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewUpdate_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewUpdate_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
```



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```
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewDelete_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewDelete_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewListGet_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
```



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```
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_ExportViewListGet_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsCreate_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsCreate_output_policy">
```



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```
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsClone_Input_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="International" Namespace="http://www.w3.org/2005/09/ws-i18n" />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="WSHttpBinding_IService_SecurityPrincipalsClone_output_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:SignedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
          <sp:Header Name="To" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="From" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="FaultTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="ReplyTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="MessageID" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="RelatesTo" Namespace="http://www.w3.org/2005/08/addressing" />
          <sp:Header Name="Action" Namespace="http://www.w3.org/2005/08/addressing" />
        </sp:SignedParts>
        <sp:EncryptedParts xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <sp:Body />
        </sp:EncryptedParts>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="BasicHttpBinding_IService_policy">
```



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```
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NegotiateAuthentication
xmlns:http="http://schemas.microsoft.com/ws/06/2004/policy/http" />
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsdl:types>
    <xsd:schema
targetNamespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/Imports">
      <xsd:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d0" namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
      <xsd:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d2" namespace="http://www.w3.org/2005/09/ws-i18n" />
      <xsd:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d1" namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xsd:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d3" namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xsd:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d4" namespace="http://schemas.datacontract.org/2004/07/System" />
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="SecurityPrincipalsRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrincipalsRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsRequest_Headers">
    <wsdl:part xmlns:q1="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q1:International" />
  </wsdl:message>
  <wsdl:message name="MessageResponse">
    <wsdl:part name="parameters" element="tns:MessageResponse" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsGetRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrincipalsGetRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsGetRequest_Headers">
    <wsdl:part xmlns:q2="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q2:International" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsGetResponse">
    <wsdl:part name="parameters" element="tns:SecurityPrincipalsGetResponse" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsDeleteRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrincipalsDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrincipalsDeleteRequest_Headers">
    <wsdl:part xmlns:q3="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q3:International" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrivilegesRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesRequest_Headers">
    <wsdl:part xmlns:q4="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q4:International" />
```



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```
  </wsdl:message>
  <wsdl:message name="SecurityCreateResponse">
    <wsdl:part name="parameters" element="tns:SecurityCreateResponse" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesGetRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrivilegesGetRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesGetRequest_Headers">
    <wsdl:part xmlns:q5="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q5:International" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesGetResponse">
    <wsdl:part name="parameters" element="tns:SecurityPrivilegesGetResponse" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesDeleteRequest">
    <wsdl:part name="parameters" element="tns:SecurityPrivilegesDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="SecurityPrivilegesDeleteRequest_Headers">
    <wsdl:part xmlns:q6="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q6:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesPaletteGetRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesPaletteGetRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesPaletteGetRequest_Headers">
    <wsdl:part xmlns:q7="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q7:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesPaletteGetResponse">
    <wsdl:part name="parameters" element="tns:BusinessRulesPaletteGetResponse" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesCloneRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesCloneRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesCloneRequest_Headers">
    <wsdl:part xmlns:q8="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q8:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesCreateRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesCreateRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesCreateRequest_Headers">
    <wsdl:part xmlns:q9="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q9:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesCreateResponse">
    <wsdl:part name="parameters" element="tns:BusinessRulesCreateResponse" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesDeleteRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesDeleteRequest_Headers">
    <wsdl:part xmlns:q10="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q10:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesGetRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesGetRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesGetRequest_Headers">
```



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```
    <wsdl:part xmlns:q11="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q11:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesGetResponse">
    <wsdl:part name="parameters" element="tns:BusinessRulesGetResponse" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesPublishRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesPublishRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesPublishRequest_Headers">
    <wsdl:part xmlns:q12="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q12:International" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesUpdateRequest">
    <wsdl:part name="parameters" element="tns:BusinessRulesUpdateRequest" />
  </wsdl:message>
  <wsdl:message name="BusinessRulesUpdateRequest_Headers">
    <wsdl:part xmlns:q13="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q13:International" />
  </wsdl:message>
  <wsdl:message name="MetadataCloneRequest">
    <wsdl:part name="parameters" element="tns:MetadataCloneRequest" />
  </wsdl:message>
  <wsdl:message name="MetadataCloneRequest_Headers">
    <wsdl:part xmlns:q14="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q14:International" />
  </wsdl:message>
  <wsdl:message name="MetadataCloneResponse">
    <wsdl:part name="parameters" element="tns:MetadataCloneResponse" />
  </wsdl:message>
  <wsdl:message name="MetadataCreateRequest">
    <wsdl:part name="parameters" element="tns:MetadataCreateRequest" />
  </wsdl:message>
  <wsdl:message name="MetadataCreateRequest_Headers">
    <wsdl:part xmlns:q15="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q15:International" />
  </wsdl:message>
  <wsdl:message name="MetadataCreateResponse">
    <wsdl:part name="parameters" element="tns:MetadataCreateResponse" />
  </wsdl:message>
  <wsdl:message name="MetadataDeleteRequest">
    <wsdl:part name="parameters" element="tns:MetadataDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="MetadataDeleteRequest_Headers">
    <wsdl:part xmlns:q16="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q16:International" />
  </wsdl:message>
  <wsdl:message name="MetadataDeleteResponse">
    <wsdl:part name="parameters" element="tns:MetadataDeleteResponse" />
  </wsdl:message>
  <wsdl:message name="MetadataGetRequest">
    <wsdl:part name="parameters" element="tns:MetadataGetRequest" />
  </wsdl:message>
  <wsdl:message name="MetadataGetRequest_Headers">
    <wsdl:part xmlns:q17="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q17:International" />
  </wsdl:message>
  <wsdl:message name="MetadataGetResponse">
    <wsdl:part name="parameters" element="tns:MetadataGetResponse" />
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  </wsdl:message>
  <wsdl:message name="MetadataUpdateRequest">
    <wsdl:part name="parameters" element="tns:MetadataUpdateRequest" />
  </wsdl:message>
  <wsdl:message name="MetadataUpdateRequest_Headers">
    <wsdl:part xmlns:q18="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q18:International" />
  </wsdl:message>
  <wsdl:message name="MetadataUpdateResponse">
    <wsdl:part name="parameters" element="tns:MetadataUpdateResponse" />
  </wsdl:message>
  <wsdl:message name="StagingNameCheckRequest">
    <wsdl:part name="parameters" element="tns:StagingNameCheckRequest" />
  </wsdl:message>
  <wsdl:message name="StagingNameCheckRequest_Headers">
    <wsdl:part xmlns:q19="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q19:International" />
  </wsdl:message>
  <wsdl:message name="StagingNameCheckResponse">
    <wsdl:part name="parameters" element="tns:StagingNameCheckResponse" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsGetRequest">
    <wsdl:part name="parameters" element="tns:SystemSettingsGetRequest" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsGetRequest_Headers">
    <wsdl:part xmlns:q20="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q20:International" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsGetResponse">
    <wsdl:part name="parameters" element="tns:SystemSettingsGetResponse" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsUpdateRequest">
    <wsdl:part name="parameters" element="tns:SystemSettingsUpdateRequest" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsUpdateRequest_Headers">
    <wsdl:part xmlns:q21="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q21:International" />
  </wsdl:message>
  <wsdl:message name="SystemSettingsUpdateResponse">
    <wsdl:part name="parameters" element="tns:SystemSettingsUpdateResponse" />
  </wsdl:message>
  <wsdl:message name="SystemDomainListGetRequest">
    <wsdl:part name="parameters" element="tns:SystemDomainListGetRequest" />
  </wsdl:message>
  <wsdl:message name="SystemDomainListGetRequest_Headers">
    <wsdl:part xmlns:q22="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q22:International" />
  </wsdl:message>
  <wsdl:message name="SystemDomainListGetResponse">
    <wsdl:part name="parameters" element="tns:SystemDomainListGetResponse" />
  </wsdl:message>
  <wsdl:message name="SystemPropertiesGetRequest">
    <wsdl:part name="parameters" element="tns:SystemPropertiesGetRequest" />
  </wsdl:message>
  <wsdl:message name="SystemPropertiesGetRequest_Headers">
    <wsdl:part xmlns:q23="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q23:International" />
  </wsdl:message>
  <wsdl:message name="SystemPropertiesGetResponse">
```



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      <wsdl:part name="parameters" element="tns:SystemPropertiesGetResponse" />
    </wsdl:message>
    <wsdl:message name="ServiceCheckGetRequest">
      <wsdl:part name="parameters" element="tns:ServiceCheckGetRequest" />
    </wsdl:message>
    <wsdl:message name="ServiceCheckGetRequest_Headers">
      <wsdl:part xmlns:q24="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q24:International" />
    </wsdl:message>
    <wsdl:message name="ServiceVersionGetResponse">
      <wsdl:part name="parameters" element="tns:ServiceVersionGetResponse" />
    </wsdl:message>
    <wsdl:message name="VersionCopyRequest">
      <wsdl:part name="parameters" element="tns:VersionCopyRequest" />
    </wsdl:message>
    <wsdl:message name="VersionCopyRequest_Headers">
      <wsdl:part xmlns:q25="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q25:International" />
    </wsdl:message>
    <wsdl:message name="VersionCopyResponse">
      <wsdl:part name="parameters" element="tns:VersionCopyResponse" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesGetRequest">
      <wsdl:part name="parameters" element="tns:UserPreferencesGetRequest" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesGetRequest_Headers">
      <wsdl:part xmlns:q26="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q26:International" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesGetResponse">
      <wsdl:part name="parameters" element="tns:UserPreferencesGetResponse" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesUpdateRequest">
      <wsdl:part name="parameters" element="tns:UserPreferencesUpdateRequest" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesUpdateRequest_Headers">
      <wsdl:part xmlns:q27="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q27:International" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesUpdateResponse">
      <wsdl:part name="parameters" element="tns:UserPreferencesUpdateResponse" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesDeleteRequest">
      <wsdl:part name="parameters" element="tns:UserPreferencesDeleteRequest" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesDeleteRequest_Headers">
      <wsdl:part xmlns:q28="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q28:International" />
    </wsdl:message>
    <wsdl:message name="UserPreferencesDeleteResponse">
      <wsdl:part name="parameters" element="tns:UserPreferencesDeleteResponse" />
    </wsdl:message>
    <wsdl:message name="DataQualityInstalledStateRequest">
      <wsdl:part name="parameters" element="tns:DataQualityInstalledStateRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityInstalledStateRequest_Headers">
      <wsdl:part xmlns:q29="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q29:International" />
    </wsdl:message>
```



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    <wsdl:message name="DataQualityInstalledStateResponse">
      <wsdl:part name="parameters" element="tns:DataQualityInstalledStateResponse" />
    </wsdl:message>
    <wsdl:message name="DataQualityKnowledgeBasesGetRequest">
      <wsdl:part name="parameters" element="tns:DataQualityKnowledgeBasesGetRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityKnowledgeBasesGetRequest_Headers">
      <wsdl:part xmlns:q30="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q30:International" />
    </wsdl:message>
    <wsdl:message name="DataQualityKnowledgeBasesGetResponse">
      <wsdl:part name="parameters" element="tns:DataQualityKnowledgeBasesGetResponse" />
    </wsdl:message>
    <wsdl:message name="DataQualityCleansingOperationStartRequest">
      <wsdl:part name="parameters" element="tns:DataQualityCleansingOperationStartRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityCleansingOperationStartRequest_Headers">
      <wsdl:part xmlns:q31="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q31:International" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationStartResponse">
      <wsdl:part name="parameters" element="tns:DataQualityOperationStartResponse" />
    </wsdl:message>
    <wsdl:message name="DataQualityMatchingOperationStartRequest">
      <wsdl:part name="parameters" element="tns:DataQualityMatchingOperationStartRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityMatchingOperationStartRequest_Headers">
      <wsdl:part xmlns:q32="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q32:International" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationStatusRequest">
      <wsdl:part name="parameters" element="tns:DataQualityOperationStatusRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationStatusRequest_Headers">
      <wsdl:part xmlns:q33="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q33:International" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationStatusResponse">
      <wsdl:part name="parameters" element="tns:DataQualityOperationStatusResponse" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationResultsGetRequest">
      <wsdl:part name="parameters" element="tns:DataQualityOperationResultsGetRequest" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationResultsGetRequest_Headers">
      <wsdl:part xmlns:q34="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q34:International" />
    </wsdl:message>
    <wsdl:message name="DataQualityOperationResultsGetResponse">
      <wsdl:part name="parameters" element="tns:DataQualityOperationResultsGetResponse" />
    </wsdl:message>
    <wsdl:message name="EntityMembersGetRequest">
      <wsdl:part name="parameters" element="tns:EntityMembersGetRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMembersGetRequest_Headers">
      <wsdl:part xmlns:q35="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q35:International" />
    </wsdl:message>
    <wsdl:message name="EntityMembersGetResponse">
      <wsdl:part name="parameters" element="tns:EntityMembersGetResponse" />
```



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  </wsdl:message>
  <wsdl:message name="EntityMemberAttributesGetRequest">
    <wsdl:part name="parameters" element="tns:EntityMemberAttributesGetRequest" />
  </wsdl:message>
  <wsdl:message name="EntityMemberAttributesGetRequest_Headers">
    <wsdl:part xmlns:q36="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q36:International" />
  </wsdl:message>
  <wsdl:message name="EntityMemberAttributesGetResponse">
    <wsdl:part name="parameters" element="tns:EntityMemberAttributesGetResponse" />
  </wsdl:message>
  <wsdl:message name="HierarchyMembersGetRequest">
    <wsdl:part name="parameters" element="tns:HierarchyMembersGetRequest" />
  </wsdl:message>
  <wsdl:message name="HierarchyMembersGetRequest_Headers">
    <wsdl:part xmlns:q37="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q37:International" />
  </wsdl:message>
  <wsdl:message name="HierarchyMembersGetResponse">
    <wsdl:part name="parameters" element="tns:HierarchyMembersGetResponse" />
  </wsdl:message>
  <wsdl:message name="ModelMembersGetRequest">
    <wsdl:part name="parameters" element="tns:ModelMembersGetRequest" />
  </wsdl:message>
  <wsdl:message name="ModelMembersGetRequest_Headers">
    <wsdl:part xmlns:q38="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q38:International" />
  </wsdl:message>
  <wsdl:message name="ModelMembersGetResponse">
    <wsdl:part name="parameters" element="tns:ModelMembersGetResponse" />
  </wsdl:message>
  <wsdl:message name="EntityMembersCreateRequest">
    <wsdl:part name="parameters" element="tns:EntityMembersCreateRequest" />
  </wsdl:message>
  <wsdl:message name="EntityMembersCreateRequest_Headers">
    <wsdl:part xmlns:q39="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q39:International" />
  </wsdl:message>
  <wsdl:message name="EntityMembersCreateResponse">
    <wsdl:part name="parameters" element="tns:EntityMembersCreateResponse" />
  </wsdl:message>
  <wsdl:message name="EntityMembersDeleteRequest">
    <wsdl:part name="parameters" element="tns:EntityMembersDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="EntityMembersDeleteRequest_Headers">
    <wsdl:part xmlns:q40="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q40:International" />
  </wsdl:message>
  <wsdl:message name="EntityMembersDeleteResponse">
    <wsdl:part name="parameters" element="tns:EntityMembersDeleteResponse" />
  </wsdl:message>
  <wsdl:message name="EntityMembersUpdateRequest">
    <wsdl:part name="parameters" element="tns:EntityMembersUpdateRequest" />
  </wsdl:message>
  <wsdl:message name="EntityMembersUpdateRequest_Headers">
    <wsdl:part xmlns:q41="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q41:International" />
  </wsdl:message>
  <wsdl:message name="EntityMembersUpdateResponse">
```



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      <wsdl:part name="parameters" element="tns:EntityMembersUpdateResponse" />
    </wsdl:message>
    <wsdl:message name="EntityMembersCopyRequest">
      <wsdl:part name="parameters" element="tns:EntityMembersCopyRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMembersCopyRequest_Headers">
      <wsdl:part xmlns:q42="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q42:International" />
    </wsdl:message>
    <wsdl:message name="EntityMembersCopyResponse">
      <wsdl:part name="parameters" element="tns:EntityMembersCopyResponse" />
    </wsdl:message>
    <wsdl:message name="EntityMembersMergeRequest">
      <wsdl:part name="parameters" element="tns:EntityMembersMergeRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMembersMergeRequest_Headers">
      <wsdl:part xmlns:q43="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q43:International" />
    </wsdl:message>
    <wsdl:message name="EntityMembersMergeResponse">
      <wsdl:part name="parameters" element="tns:EntityMembersMergeResponse" />
    </wsdl:message>
    <wsdl:message name="EntityStagingLoadRequest">
      <wsdl:part name="parameters" element="tns:EntityStagingLoadRequest" />
    </wsdl:message>
    <wsdl:message name="EntityStagingLoadRequest_Headers">
      <wsdl:part xmlns:q44="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q44:International" />
    </wsdl:message>
    <wsdl:message name="EntityStagingLoadResponse">
      <wsdl:part name="parameters" element="tns:EntityStagingLoadResponse" />
    </wsdl:message>
    <wsdl:message name="EntityStagingGetRequest">
      <wsdl:part name="parameters" element="tns:EntityStagingGetRequest" />
    </wsdl:message>
    <wsdl:message name="EntityStagingGetRequest_Headers">
      <wsdl:part xmlns:q45="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q45:International" />
    </wsdl:message>
    <wsdl:message name="EntityStagingGetResponse">
      <wsdl:part name="parameters" element="tns:EntityStagingGetResponse" />
    </wsdl:message>
    <wsdl:message name="EntityStagingClearRequest">
      <wsdl:part name="parameters" element="tns:EntityStagingClearRequest" />
    </wsdl:message>
    <wsdl:message name="EntityStagingClearRequest_Headers">
      <wsdl:part xmlns:q46="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q46:International" />
    </wsdl:message>
    <wsdl:message name="EntityStagingClearResponse">
      <wsdl:part name="parameters" element="tns:EntityStagingClearResponse" />
    </wsdl:message>
    <wsdl:message name="EntityStagingProcessRequest">
      <wsdl:part name="parameters" element="tns:EntityStagingProcessRequest" />
    </wsdl:message>
    <wsdl:message name="EntityStagingProcessRequest_Headers">
      <wsdl:part xmlns:q47="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q47:International" />
    </wsdl:message>
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    <wsdl:message name="EntityStagingProcessResponse">
      <wsdl:part name="parameters" element="tns:EntityStagingProcessResponse" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkDeleteRequest">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkDeleteRequest" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkDeleteRequest_Headers">
      <wsdl:part xmlns:q48="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q48:International" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkDeleteResponse">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkDeleteResponse" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkUpdateRequest">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkUpdateRequest" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkUpdateRequest_Headers">
      <wsdl:part xmlns:q49="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q49:International" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkUpdateResponse">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkUpdateResponse" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkMergeRequest">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkMergeRequest" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkMergeRequest_Headers">
      <wsdl:part xmlns:q50="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q50:International" />
    </wsdl:message>
    <wsdl:message name="ModelMembersBulkMergeResponse">
      <wsdl:part name="parameters" element="tns:ModelMembersBulkMergeResponse" />
    </wsdl:message>
    <wsdl:message name="StagingGetRequest">
      <wsdl:part name="parameters" element="tns:StagingGetRequest" />
    </wsdl:message>
    <wsdl:message name="StagingGetRequest_Headers">
      <wsdl:part xmlns:q51="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q51:International" />
    </wsdl:message>
    <wsdl:message name="StagingGetResponse">
      <wsdl:part name="parameters" element="tns:StagingGetResponse" />
    </wsdl:message>
    <wsdl:message name="StagingClearRequest">
      <wsdl:part name="parameters" element="tns:StagingClearRequest" />
    </wsdl:message>
    <wsdl:message name="StagingClearRequest_Headers">
      <wsdl:part xmlns:q52="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q52:International" />
    </wsdl:message>
    <wsdl:message name="StagingClearResponse">
      <wsdl:part name="parameters" element="tns:StagingClearResponse" />
    </wsdl:message>
    <wsdl:message name="TransactionsGetRequest">
      <wsdl:part name="parameters" element="tns:TransactionsGetRequest" />
    </wsdl:message>
    <wsdl:message name="TransactionsGetRequest_Headers">
      <wsdl:part xmlns:q53="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q53:International" />
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    </wsdl:message>
    <wsdl:message name="TransactionsGetResponse">
      <wsdl:part name="parameters" element="tns:TransactionsGetResponse" />
    </wsdl:message>
    <wsdl:message name="TransactionsReverseRequest">
      <wsdl:part name="parameters" element="tns:TransactionsReverseRequest" />
    </wsdl:message>
    <wsdl:message name="TransactionsReverseRequest_Headers">
      <wsdl:part xmlns:q54="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q54:International" />
    </wsdl:message>
    <wsdl:message name="TransactionsReverseResponse">
      <wsdl:part name="parameters" element="tns:TransactionsReverseResponse" />
    </wsdl:message>
    <wsdl:message name="ValidationGetRequest">
      <wsdl:part name="parameters" element="tns:ValidationGetRequest" />
    </wsdl:message>
    <wsdl:message name="ValidationGetRequest_Headers">
      <wsdl:part xmlns:q55="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q55:International" />
    </wsdl:message>
    <wsdl:message name="ValidationGetResponse">
      <wsdl:part name="parameters" element="tns:ValidationGetResponse" />
    </wsdl:message>
    <wsdl:message name="ValidationProcessRequest">
      <wsdl:part name="parameters" element="tns:ValidationProcessRequest" />
    </wsdl:message>
    <wsdl:message name="ValidationProcessRequest_Headers">
      <wsdl:part xmlns:q56="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q56:International" />
    </wsdl:message>
    <wsdl:message name="ValidationProcessResponse">
      <wsdl:part name="parameters" element="tns:ValidationProcessResponse" />
    </wsdl:message>
    <wsdl:message name="EntityMemberAnnotationsCreateRequest">
      <wsdl:part name="parameters" element="tns:EntityMemberAnnotationsCreateRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMemberAnnotationsCreateRequest_Headers">
      <wsdl:part xmlns:q57="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q57:International" />
    </wsdl:message>
    <wsdl:message name="AnnotationsCreateResponse">
      <wsdl:part name="parameters" element="tns:AnnotationsCreateResponse" />
    </wsdl:message>
    <wsdl:message name="TransactionAnnotationsCreateRequest">
      <wsdl:part name="parameters" element="tns:TransactionAnnotationsCreateRequest" />
    </wsdl:message>
    <wsdl:message name="TransactionAnnotationsCreateRequest_Headers">
      <wsdl:part xmlns:q58="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q58:International" />
    </wsdl:message>
    <wsdl:message name="EntityMemberAnnotationsGetRequest">
      <wsdl:part name="parameters" element="tns:EntityMemberAnnotationsGetRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMemberAnnotationsGetRequest_Headers">
      <wsdl:part xmlns:q59="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q59:International" />
    </wsdl:message>
    <wsdl:message name="EntityMemberAnnotationsGetResponse">
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      <wsdl:part name="parameters" element="tns:EntityMemberAnnotationsGetResponse" />
    </wsdl:message>
    <wsdl:message name="TransactionAnnotationsGetRequest">
      <wsdl:part name="parameters" element="tns:TransactionAnnotationsGetRequest" />
    </wsdl:message>
    <wsdl:message name="TransactionAnnotationsGetRequest_Headers">
      <wsdl:part xmlns:q60="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q60:International" />
    </wsdl:message>
    <wsdl:message name="TransactionAnnotationsGetResponse">
      <wsdl:part name="parameters" element="tns:TransactionAnnotationsGetResponse" />
    </wsdl:message>
    <wsdl:message name="AnnotationsUpdateRequest">
      <wsdl:part name="parameters" element="tns:AnnotationsUpdateRequest" />
    </wsdl:message>
    <wsdl:message name="AnnotationsUpdateRequest_Headers">
      <wsdl:part xmlns:q61="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q61:International" />
    </wsdl:message>
    <wsdl:message name="AnnotationsUpdateResponse">
      <wsdl:part name="parameters" element="tns:AnnotationsUpdateResponse" />
    </wsdl:message>
    <wsdl:message name="AnnotationsDeleteRequest">
      <wsdl:part name="parameters" element="tns:AnnotationsDeleteRequest" />
    </wsdl:message>
    <wsdl:message name="AnnotationsDeleteRequest_Headers">
      <wsdl:part xmlns:q62="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q62:International" />
    </wsdl:message>
    <wsdl:message name="AnnotationsDeleteResponse">
      <wsdl:part name="parameters" element="tns:AnnotationsDeleteResponse" />
    </wsdl:message>
    <wsdl:message name="EntityMemberKeyGetRequest">
      <wsdl:part name="parameters" element="tns:EntityMemberKeyGetRequest" />
    </wsdl:message>
    <wsdl:message name="EntityMemberKeyGetRequest_Headers">
      <wsdl:part xmlns:q63="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q63:International" />
    </wsdl:message>
    <wsdl:message name="EntityMemberKeyGetResponse">
      <wsdl:part name="parameters" element="tns:EntityMemberKeyGetResponse" />
    </wsdl:message>
    <wsdl:message name="StagingProcessRequest">
      <wsdl:part name="parameters" element="tns:StagingProcessRequest" />
    </wsdl:message>
    <wsdl:message name="StagingProcessRequest_Headers">
      <wsdl:part xmlns:q64="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q64:International" />
    </wsdl:message>
    <wsdl:message name="StagingProcessResponse">
      <wsdl:part name="parameters" element="tns:StagingProcessResponse" />
    </wsdl:message>
    <wsdl:message name="ExportViewCreateRequest">
      <wsdl:part name="parameters" element="tns:ExportViewCreateRequest" />
    </wsdl:message>
    <wsdl:message name="ExportViewCreateRequest_Headers">
      <wsdl:part xmlns:q65="http://www.w3.org/2005/09/ws-i18n" name="International"
  element="q65:International" />
    </wsdl:message>
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```
  <wsdl:message name="ExportViewCreateResponse">
    <wsdl:part name="parameters" element="tns:ExportViewCreateResponse" />
  </wsdl:message>
  <wsdl:message name="ExportViewUpdateRequest">
    <wsdl:part name="parameters" element="tns:ExportViewUpdateRequest" />
  </wsdl:message>
  <wsdl:message name="ExportViewUpdateRequest_Headers">
    <wsdl:part xmlns:q66="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q66:International" />
  </wsdl:message>
  <wsdl:message name="ExportViewUpdateResponse">
    <wsdl:part name="parameters" element="tns:ExportViewUpdateResponse" />
  </wsdl:message>
  <wsdl:message name="ExportViewDeleteRequest">
    <wsdl:part name="parameters" element="tns:ExportViewDeleteRequest" />
  </wsdl:message>
  <wsdl:message name="ExportViewDeleteRequest_Headers">
    <wsdl:part xmlns:q67="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q67:International" />
  </wsdl:message>
  <wsdl:message name="ExportViewDeleteResponse">
    <wsdl:part name="parameters" element="tns:ExportViewDeleteResponse" />
  </wsdl:message>
  <wsdl:message name="ExportViewListGetRequest">
    <wsdl:part name="parameters" element="tns:ExportViewListGetRequest" />
  </wsdl:message>
  <wsdl:message name="ExportViewListGetRequest_Headers">
    <wsdl:part xmlns:q68="http://www.w3.org/2005/09/ws-i18n" name="International"
element="q68:International" />
  </wsdl:message>
  <wsdl:message name="ExportViewListGetResponse">
    <wsdl:part name="parameters" element="tns:ExportViewListGetResponse" />
  </wsdl:message>
  <wsdl:portType name="IService">
    <wsdl:operation name="SecurityPrincipalsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsUpdate" name="SecurityPrincipalsRequest" message="tns:SecurityPrincipalsRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsGet" name="SecurityPrincipalsGetRequest"
message="tns:SecurityPrincipalsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsGetResponse" name="SecurityPrincipalsGetResponse"
message="tns:SecurityPrincipalsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsDelete" name="SecurityPrincipalsDeleteRequest"
message="tns:SecurityPrincipalsDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsDeleteResponse" name="MessageResponse" message="tns:MessageResponse" />
```



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```
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCreate" name="SecurityPrivilegesRequest" message="tns:SecurityPrivilegesRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCreateResponse" name="SecurityCreateResponse"
message="tns:SecurityCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesClone" name="SecurityPrivilegesRequest" message="tns:SecurityPrivilegesRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesCloneResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesUpdate" name="SecurityPrivilegesRequest" message="tns:SecurityPrivilegesRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesGet" name="SecurityPrivilegesGetRequest"
message="tns:SecurityPrivilegesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesGetResponse" name="SecurityPrivilegesGetResponse"
message="tns:SecurityPrivilegesGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesDelete" name="SecurityPrivilegesDeleteRequest"
message="tns:SecurityPrivilegesDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrivilegesDeleteResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPaletteGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPaletteGet" name="BusinessRulesPaletteGetRequest"
message="tns:BusinessRulesPaletteGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPaletteGetResponse" name="BusinessRulesPaletteGetResponse"
message="tns:BusinessRulesPaletteGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesClone" name="BusinessRulesCloneRequest" message="tns:BusinessRulesCloneRequest" />
```



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      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCloneResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCreate" name="BusinessRulesCreateRequest" message="tns:BusinessRulesCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesCreateResponse" name="BusinessRulesCreateResponse"
message="tns:BusinessRulesCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesDelete" name="BusinessRulesDeleteRequest" message="tns:BusinessRulesDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesDeleteResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesGet" name="BusinessRulesGetRequest" message="tns:BusinessRulesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesGetResponse" name="BusinessRulesGetResponse" message="tns:BusinessRulesGetResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPublish">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPublish" name="BusinessRulesPublishRequest" message="tns:BusinessRulesPublishRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesPublishResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesUpdate" name="BusinessRulesUpdateRequest" message="tns:BusinessRulesUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busin
essRulesUpdateResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="MetadataClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataClone" name="MetadataCloneRequest" message="tns:MetadataCloneRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCloneResponse" name="MetadataCloneResponse" message="tns:MetadataCloneResponse" />
    </wsdl:operation>
    <wsdl:operation name="MetadataCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCreate" name="MetadataCreateRequest" message="tns:MetadataCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataCreateResponse" name="MetadataCreateResponse" message="tns:MetadataCreateResponse" />
```



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```
    </wsdl:operation>
    <wsdl:operation name="MetadataDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataDelete" name="MetadataDeleteRequest" message="tns:MetadataDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataDeleteResponse" name="MetadataDeleteResponse" message="tns:MetadataDeleteResponse" />
    </wsdl:operation>
    <wsdl:operation name="MetadataGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataGet" name="MetadataGetRequest" message="tns:MetadataGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataGetResponse" name="MetadataGetResponse" message="tns:MetadataGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="MetadataUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataUpdate" name="MetadataUpdateRequest" message="tns:MetadataUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metad
ataUpdateResponse" name="MetadataUpdateResponse" message="tns:MetadataUpdateResponse" />
    </wsdl:operation>
    <wsdl:operation name="StagingNameCheck">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngNameCheck" name="StagingNameCheckRequest" message="tns:StagingNameCheckRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngNameCheckResponse" name="StagingNameCheckResponse" message="tns:StagingNameCheckResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsGet" name="SystemSettingsGetRequest" message="tns:SystemSettingsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsGetResponse" name="SystemSettingsGetResponse"
message="tns:SystemSettingsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsUpdate" name="SystemSettingsUpdateRequest" message="tns:SystemSettingsUpdateRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mSettingsUpdateResponse" name="SystemSettingsUpdateResponse"
message="tns:SystemSettingsUpdateResponse" />
    </wsdl:operation>
    <wsdl:operation name="SystemDomainListGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mDomainListGet" name="SystemDomainListGetRequest" message="tns:SystemDomainListGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mDomainListGetResponse" name="SystemDomainListGetResponse"
message="tns:SystemDomainListGetResponse" />
    </wsdl:operation>
```



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    <wsdl:operation name="SystemPropertiesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mPropertiesGet" name="SystemPropertiesGetRequest" message="tns:SystemPropertiesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Syste
mPropertiesGetResponse" name="SystemPropertiesGetResponse"
message="tns:SystemPropertiesGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="ServiceCheck">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceCheck" name="ServiceCheckGetRequest" message="tns:ServiceCheckGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceCheckResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
    <wsdl:operation name="ServiceVersionGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceVersionGet" name="ServiceVersionGetResponse" message="tns:ServiceVersionGetResponse" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servi
ceVersionGetResponse" name="ServiceVersionGetResponse"
message="tns:ServiceVersionGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="VersionCopy">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versi
onCopy" name="VersionCopyRequest" message="tns:VersionCopyRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versi
onCopyResponse" name="VersionCopyResponse" message="tns:VersionCopyResponse" />
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesGet" name="UserPreferencesGetRequest" message="tns:UserPreferencesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesGetResponse" name="UserPreferencesGetResponse"
message="tns:UserPreferencesGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesUpdate" name="UserPreferencesUpdateRequest"
message="tns:UserPreferencesUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesUpdateResponse" name="UserPreferencesUpdateResponse"
message="tns:UserPreferencesUpdateResponse" />
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesDelete" name="UserPreferencesDeleteRequest"
message="tns:UserPreferencesDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserP
referencesDeleteResponse" name="UserPreferencesDeleteResponse"
message="tns:UserPreferencesDeleteResponse" />
```



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```
    </wsdl:operation>
    <wsdl:operation name="DataQualityInstalledState">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityInstalledState" name="DataQualityInstalledStateRequest"
message="tns:DataQualityInstalledStateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityInstalledStateResponse" name="DataQualityInstalledStateResponse"
message="tns:DataQualityInstalledStateResponse" />
    </wsdl:operation>
    <wsdl:operation name="DataQualityKnowledgeBasesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityKnowledgeBasesGet" name="DataQualityKnowledgeBasesGetRequest"
message="tns:DataQualityKnowledgeBasesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityKnowledgeBasesGetResponse" name="DataQualityKnowledgeBasesGetResponse"
message="tns:DataQualityKnowledgeBasesGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="DataQualityCleansingOperationStart">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityCleansingOperationStart" name="DataQualityCleansingOperationStartRequest"
message="tns:DataQualityCleansingOperationStartRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityCleansingOperationStartResponse" name="DataQualityOperationStartResponse"
message="tns:DataQualityOperationStartResponse" />
    </wsdl:operation>
    <wsdl:operation name="DataQualityMatchingOperationStart">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityMatchingOperationStart" name="DataQualityMatchingOperationStartRequest"
message="tns:DataQualityMatchingOperationStartRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityMatchingOperationStartResponse" name="DataQualityOperationStartResponse"
message="tns:DataQualityOperationStartResponse" />
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationStatus">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityOperationStatus" name="DataQualityOperationStatusRequest"
message="tns:DataQualityOperationStatusRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityOperationStatusResponse" name="DataQualityOperationStatusResponse"
message="tns:DataQualityOperationStatusResponse" />
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationResultsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityOperationResultsGet" name="DataQualityOperationResultsGetRequest"
message="tns:DataQualityOperationResultsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQ
ualityOperationResultsGetResponse" name="DataQualityOperationResultsGetResponse"
message="tns:DataQualityOperationResultsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMembersGet">
```



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```
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersGet" name="EntityMembersGetRequest" message="tns:EntityMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersGetResponse" name="EntityMembersGetResponse" message="tns:EntityMembersGetResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAttributesGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAttributesGet" name="EntityMemberAttributesGetRequest"
message="tns:EntityMemberAttributesGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAttributesGetResponse" name="EntityMemberAttributesGetResponse"
message="tns:EntityMemberAttributesGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="HierarchyMembersGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hiera
rchyMembersGet" name="HierarchyMembersGetRequest" message="tns:HierarchyMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hiera
rchyMembersGetResponse" name="HierarchyMembersGetResponse"
message="tns:HierarchyMembersGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="ModelMembersGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersGet" name="ModelMembersGetRequest" message="tns:ModelMembersGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersGetResponse" name="ModelMembersGetResponse" message="tns:ModelMembersGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMembersCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCreate" name="EntityMembersCreateRequest" message="tns:EntityMembersCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCreateResponse" name="EntityMembersCreateResponse"
message="tns:EntityMembersCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMembersDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersDelete" name="EntityMembersDeleteRequest" message="tns:EntityMembersDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersDeleteResponse" name="EntityMembersDeleteResponse"
message="tns:EntityMembersDeleteResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMembersUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersUpdate" name="EntityMembersUpdateRequest" message="tns:EntityMembersUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersUpdateResponse" name="EntityMembersUpdateResponse"
message="tns:EntityMembersUpdateResponse" />
    </wsdl:operation>
```



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    <wsdl:operation name="EntityMembersCopy">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCopy" name="EntityMembersCopyRequest" message="tns:EntityMembersCopyRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersCopyResponse" name="EntityMembersCopyResponse"
message="tns:EntityMembersCopyResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMembersMerge">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersMerge" name="EntityMembersMergeRequest" message="tns:EntityMembersMergeRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMembersMergeResponse" name="EntityMembersMergeResponse"
message="tns:EntityMembersMergeResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityStagingLoad">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingLoad" name="EntityStagingLoadRequest" message="tns:EntityStagingLoadRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingLoadResponse" name="EntityStagingLoadResponse"
message="tns:EntityStagingLoadResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityStagingGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingGet" name="EntityStagingGetRequest" message="tns:EntityStagingGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingGetResponse" name="EntityStagingGetResponse" message="tns:EntityStagingGetResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingClear">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingClear" name="EntityStagingClearRequest" message="tns:EntityStagingClearRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingClearResponse" name="EntityStagingClearResponse"
message="tns:EntityStagingClearResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityStagingProcess">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingProcess" name="EntityStagingProcessRequest" message="tns:EntityStagingProcessRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yStagingProcessResponse" name="EntityStagingProcessResponse"
message="tns:EntityStagingProcessResponse" />
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkDelete" name="ModelMembersBulkDeleteRequest"
message="tns:ModelMembersBulkDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
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MembersBulkDeleteResponse" name="ModelMembersBulkDeleteResponse"
message="tns:ModelMembersBulkDeleteResponse" />
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkUpdate" name="ModelMembersBulkUpdateRequest"
message="tns:ModelMembersBulkUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkUpdateResponse" name="ModelMembersBulkUpdateResponse"
message="tns:ModelMembersBulkUpdateResponse" />
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkMerge">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkMerge" name="ModelMembersBulkMergeRequest"
message="tns:ModelMembersBulkMergeRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Model
MembersBulkMergeResponse" name="ModelMembersBulkMergeResponse"
message="tns:ModelMembersBulkMergeResponse" />
    </wsdl:operation>
    <wsdl:operation name="StagingGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngGet" name="StagingGetRequest" message="tns:StagingGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngGetResponse" name="StagingGetResponse" message="tns:StagingGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="StagingClear">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngClear" name="StagingClearRequest" message="tns:StagingClearRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngClearResponse" name="StagingClearResponse" message="tns:StagingClearResponse" />
    </wsdl:operation>
    <wsdl:operation name="TransactionsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsGet" name="TransactionsGetRequest" message="tns:TransactionsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsGetResponse" name="TransactionsGetResponse" message="tns:TransactionsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="TransactionsReverse">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsReverse" name="TransactionsReverseRequest" message="tns:TransactionsReverseRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionsReverseResponse" name="TransactionsReverseResponse"
message="tns:TransactionsReverseResponse" />
    </wsdl:operation>
    <wsdl:operation name="ValidationGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationGet" name="ValidationGetRequest" message="tns:ValidationGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationGetResponse" name="ValidationGetResponse" message="tns:ValidationGetResponse" />
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    </wsdl:operation>
    <wsdl:operation name="ValidationProcess">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationProcess" name="ValidationProcessRequest" message="tns:ValidationProcessRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valid
ationProcessResponse" name="ValidationProcessResponse"
message="tns:ValidationProcessResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsCreate" name="EntityMemberAnnotationsCreateRequest"
message="tns:EntityMemberAnnotationsCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsCreateResponse" name="AnnotationsCreateResponse"
message="tns:AnnotationsCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsCreate" name="TransactionAnnotationsCreateRequest"
message="tns:TransactionAnnotationsCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsCreateResponse" name="AnnotationsCreateResponse"
message="tns:AnnotationsCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsGet" name="EntityMemberAnnotationsGetRequest"
message="tns:EntityMemberAnnotationsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberAnnotationsGetResponse" name="EntityMemberAnnotationsGetResponse"
message="tns:EntityMemberAnnotationsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsGet" name="TransactionAnnotationsGetRequest"
message="tns:TransactionAnnotationsGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Trans
actionAnnotationsGetResponse" name="TransactionAnnotationsGetResponse"
message="tns:TransactionAnnotationsGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="AnnotationsUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsUpdate" name="AnnotationsUpdateRequest" message="tns:AnnotationsUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsUpdateResponse" name="AnnotationsUpdateResponse"
message="tns:AnnotationsUpdateResponse" />
    </wsdl:operation>
    <wsdl:operation name="AnnotationsDelete">
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      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsDelete" name="AnnotationsDeleteRequest" message="tns:AnnotationsDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annot
ationsDeleteResponse" name="AnnotationsDeleteResponse"
message="tns:AnnotationsDeleteResponse" />
    </wsdl:operation>
    <wsdl:operation name="EntityMemberKeyLookup">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberKeyLookup" name="EntityMemberKeyGetRequest" message="tns:EntityMemberKeyGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entit
yMemberKeyLookupResponse" name="EntityMemberKeyGetResponse"
message="tns:EntityMemberKeyGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="StagingProcess">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngProcess" name="StagingProcessRequest" message="tns:StagingProcessRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagi
ngProcessResponse" name="StagingProcessResponse" message="tns:StagingProcessResponse" />
    </wsdl:operation>
    <wsdl:operation name="ExportViewCreate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewCreate" name="ExportViewCreateRequest" message="tns:ExportViewCreateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewCreateResponse" name="ExportViewCreateResponse" message="tns:ExportViewCreateResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="ExportViewUpdate">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewUpdate" name="ExportViewUpdateRequest" message="tns:ExportViewUpdateRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewUpdateResponse" name="ExportViewUpdateResponse" message="tns:ExportViewUpdateResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="ExportViewDelete">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewDelete" name="ExportViewDeleteRequest" message="tns:ExportViewDeleteRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewDeleteResponse" name="ExportViewDeleteResponse" message="tns:ExportViewDeleteResponse"
/>
    </wsdl:operation>
    <wsdl:operation name="ExportViewListGet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewListGet" name="ExportViewListGetRequest" message="tns:ExportViewListGetRequest" />
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Expor
tViewListGetResponse" name="ExportViewListGetResponse"
message="tns:ExportViewListGetResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsCreate">
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      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsCreate" name="SecurityPrincipalsRequest" message="tns:SecurityPrincipalsRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsCreateResponse" name="SecurityCreateResponse"
message="tns:SecurityCreateResponse" />
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsClone">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsClone" name="SecurityPrincipalsRequest" message="tns:SecurityPrincipalsRequest"
/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Secur
ityPrincipalsCloneResponse" name="MessageResponse" message="tns:MessageResponse" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="WSHttpBinding_IService" type="tns:IService">
    <wsp:PolicyReference URI="#WSHttpBinding_IService_policy" />
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="SecurityPrincipalsUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsUpdate" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsUpdate_Input_policy" />
        <soap12:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsGet" style="document" />
      <wsdl:input name="SecurityPrincipalsGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SecurityPrincipalsGet_Input_policy"
/>
        <soap12:header message="tns:SecurityPrincipalsGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityPrincipalsGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsDelete" style="document" />
      <wsdl:input name="SecurityPrincipalsDeleteRequest">
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        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsDelete_Input_policy" />
        <soap12:header message="tns:SecurityPrincipalsDeleteRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesCreate" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesCreate_Input_policy" />
        <soap12:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityCreateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesCreate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesClone">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesClone" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesClone_Input_policy" />
        <soap12:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesClone_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesUpdate" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesUpdate_Input_policy" />
        <soap12:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesUpdate_output_policy" />
        <soap12:body use="literal" />
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      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesGet" style="document" />
      <wsdl:input name="SecurityPrivilegesGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SecurityPrivilegesGet_Input_policy"
/>
        <soap12:header message="tns:SecurityPrivilegesGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityPrivilegesGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesDelete" style="document" />
      <wsdl:input name="SecurityPrivilegesDeleteRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesDelete_Input_policy" />
        <soap12:header message="tns:SecurityPrivilegesDeleteRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrivilegesDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPaletteGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesPaletteGet" style="document" />
      <wsdl:input name="BusinessRulesPaletteGetRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_BusinessRulesPaletteGet_Input_policy" />
        <soap12:header message="tns:BusinessRulesPaletteGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesPaletteGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_BusinessRulesPaletteGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesClone">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesClone" style="document" />
      <wsdl:input name="BusinessRulesCloneRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesClone_Input_policy" />
        <soap12:header message="tns:BusinessRulesCloneRequest_Headers" part="International"
use="literal" />
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        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesClone_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesCreate" style="document" />
      <wsdl:input name="BusinessRulesCreateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesCreate_Input_policy"
/>
        <soap12:header message="tns:BusinessRulesCreateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesCreateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesCreate_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesDelete" style="document" />
      <wsdl:input name="BusinessRulesDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesDelete_Input_policy"
/>
        <soap12:header message="tns:BusinessRulesDeleteRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesDelete_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesGet" style="document" />
      <wsdl:input name="BusinessRulesGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesGet_Input_policy" />
        <soap12:header message="tns:BusinessRulesGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPublish">
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      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesPublish" style="document" />
      <wsdl:input name="BusinessRulesPublishRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesPublish_Input_policy"
/>
        <soap12:header message="tns:BusinessRulesPublishRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesPublish_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesUpdate" style="document" />
      <wsdl:input name="BusinessRulesUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesUpdate_Input_policy"
/>
        <soap12:header message="tns:BusinessRulesUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_BusinessRulesUpdate_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataClone">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taClone" style="document" />
      <wsdl:input name="MetadataCloneRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataClone_Input_policy" />
        <soap12:header message="tns:MetadataCloneRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataCloneResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataClone_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taCreate" style="document" />
      <wsdl:input name="MetadataCreateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataCreate_Input_policy" />
        <soap12:header message="tns:MetadataCreateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataCreateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataCreate_output_policy" />
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        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taDelete" style="document" />
      <wsdl:input name="MetadataDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataDelete_Input_policy" />
        <soap12:header message="tns:MetadataDeleteRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataDeleteResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taGet" style="document" />
      <wsdl:input name="MetadataGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataGet_Input_policy" />
        <soap12:header message="tns:MetadataGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taUpdate" style="document" />
      <wsdl:input name="MetadataUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataUpdate_Input_policy" />
        <soap12:header message="tns:MetadataUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataUpdateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_MetadataUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingNameCheck">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gNameCheck" style="document" />
      <wsdl:input name="StagingNameCheckRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingNameCheck_Input_policy" />
        <soap12:header message="tns:StagingNameCheckRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingNameCheckResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingNameCheck_output_policy" />
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        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
SettingsGet" style="document" />
      <wsdl:input name="SystemSettingsGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemSettingsGet_Input_policy" />
        <soap12:header message="tns:SystemSettingsGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemSettingsGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemSettingsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
SettingsUpdate" style="document" />
      <wsdl:input name="SystemSettingsUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemSettingsUpdate_Input_policy"
/>
        <soap12:header message="tns:SystemSettingsUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemSettingsUpdateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemSettingsUpdate_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemDomainListGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
DomainListGet" style="document" />
      <wsdl:input name="SystemDomainListGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemDomainListGet_Input_policy"
/>
        <soap12:header message="tns:SystemDomainListGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemDomainListGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemDomainListGet_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemPropertiesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
PropertiesGet" style="document" />
      <wsdl:input name="SystemPropertiesGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemPropertiesGet_Input_policy"
/>
```



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        <soap12:header message="tns:SystemPropertiesGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemPropertiesGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_SystemPropertiesGet_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ServiceCheck">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servic
eCheck" style="document" />
      <wsdl:input name="ServiceCheckGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ServiceCheck_Input_policy" />
        <soap12:header message="tns:ServiceCheckGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ServiceCheck_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ServiceVersionGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servic
eVersionGet" style="document" />
      <wsdl:input name="ServiceVersionGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ServiceVersionGet_Input_policy" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ServiceVersionGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ServiceVersionGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="VersionCopy">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versio
nCopy" style="document" />
      <wsdl:input name="VersionCopyRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_VersionCopy_Input_policy" />
        <soap12:header message="tns:VersionCopyRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="VersionCopyResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_VersionCopy_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesGet" style="document" />
      <wsdl:input name="UserPreferencesGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_UserPreferencesGet_Input_policy" />
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        <soap12:header message="tns:UserPreferencesGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_UserPreferencesGet_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesUpdate" style="document" />
      <wsdl:input name="UserPreferencesUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_UserPreferencesUpdate_Input_policy"
/>
        <soap12:header message="tns:UserPreferencesUpdateRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesUpdateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_UserPreferencesUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesDelete" style="document" />
      <wsdl:input name="UserPreferencesDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_UserPreferencesDelete_Input_policy"
/>
        <soap12:header message="tns:UserPreferencesDeleteRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesDeleteResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_UserPreferencesDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityInstalledState">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityInstalledState" style="document" />
      <wsdl:input name="DataQualityInstalledStateRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityInstalledState_Input_policy" />
        <soap12:header message="tns:DataQualityInstalledStateRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityInstalledStateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityInstalledState_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
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    </wsdl:operation>
    <wsdl:operation name="DataQualityKnowledgeBasesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityKnowledgeBasesGet" style="document" />
      <wsdl:input name="DataQualityKnowledgeBasesGetRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityKnowledgeBasesGet_Input_policy" />
        <soap12:header message="tns:DataQualityKnowledgeBasesGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityKnowledgeBasesGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityKnowledgeBasesGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityCleansingOperationStart">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityCleansingOperationStart" style="document" />
      <wsdl:input name="DataQualityCleansingOperationStartRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityCleansingOperationStart_Input_policy" />
        <soap12:header message="tns:DataQualityCleansingOperationStartRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStartResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityCleansingOperationStart_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityMatchingOperationStart">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityMatchingOperationStart" style="document" />
      <wsdl:input name="DataQualityMatchingOperationStartRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityMatchingOperationStart_Input_policy" />
        <soap12:header message="tns:DataQualityMatchingOperationStartRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStartResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityMatchingOperationStart_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationStatus">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityOperationStatus" style="document" />
      <wsdl:input name="DataQualityOperationStatusRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityOperationStatus_Input_policy" />
        <soap12:header message="tns:DataQualityOperationStatusRequest_Headers"
part="International" use="literal" />
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        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStatusResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityOperationStatus_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationResultsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityOperationResultsGet" style="document" />
      <wsdl:input name="DataQualityOperationResultsGetRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityOperationResultsGet_Input_policy" />
        <soap12:header message="tns:DataQualityOperationResultsGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationResultsGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_DataQualityOperationResultsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersGet" style="document" />
      <wsdl:input name="EntityMembersGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersGet_Input_policy" />
        <soap12:header message="tns:EntityMembersGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAttributesGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAttributesGet" style="document" />
      <wsdl:input name="EntityMemberAttributesGetRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAttributesGet_Input_policy" />
        <soap12:header message="tns:EntityMemberAttributesGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberAttributesGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAttributesGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="HierarchyMembersGet">
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      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hierar
chyMembersGet" style="document" />
      <wsdl:input name="HierarchyMembersGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_HierarchyMembersGet_Input_policy"
/>
        <soap12:header message="tns:HierarchyMembersGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="HierarchyMembersGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_HierarchyMembersGet_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersGet" style="document" />
      <wsdl:input name="ModelMembersGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ModelMembersGet_Input_policy" />
        <soap12:header message="tns:ModelMembersGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ModelMembersGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersCreate" style="document" />
      <wsdl:input name="EntityMembersCreateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersCreate_Input_policy"
/>
        <soap12:header message="tns:EntityMembersCreateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersCreateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersCreate_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersDelete" style="document" />
      <wsdl:input name="EntityMembersDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersDelete_Input_policy"
/>
        <soap12:header message="tns:EntityMembersDeleteRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersDeleteResponse">
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        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersDelete_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersUpdate" style="document" />
      <wsdl:input name="EntityMembersUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersUpdate_Input_policy"
/>
        <soap12:header message="tns:EntityMembersUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersUpdateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersUpdate_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersCopy">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersCopy" style="document" />
      <wsdl:input name="EntityMembersCopyRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersCopy_Input_policy" />
        <soap12:header message="tns:EntityMembersCopyRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersCopyResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersCopy_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersMerge">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersMerge" style="document" />
      <wsdl:input name="EntityMembersMergeRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersMerge_Input_policy" />
        <soap12:header message="tns:EntityMembersMergeRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersMergeResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMembersMerge_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingLoad">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingLoad" style="document" />
      <wsdl:input name="EntityStagingLoadRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingLoad_Input_policy" />
```



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```
        <soap12:header message="tns:EntityStagingLoadRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingLoadResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingLoad_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingGet" style="document" />
      <wsdl:input name="EntityStagingGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingGet_Input_policy" />
        <soap12:header message="tns:EntityStagingGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingClear">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingClear" style="document" />
      <wsdl:input name="EntityStagingClearRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingClear_Input_policy" />
        <soap12:header message="tns:EntityStagingClearRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingClearResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingClear_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingProcess">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingProcess" style="document" />
      <wsdl:input name="EntityStagingProcessRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingProcess_Input_policy"
/>
        <soap12:header message="tns:EntityStagingProcessRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingProcessResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityStagingProcess_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkDelete">
```



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```
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkDelete" style="document" />
      <wsdl:input name="ModelMembersBulkDeleteRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_ModelMembersBulkDelete_Input_policy" />
        <soap12:header message="tns:ModelMembersBulkDeleteRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkDeleteResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_ModelMembersBulkDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkUpdate" style="document" />
      <wsdl:input name="ModelMembersBulkUpdateRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_ModelMembersBulkUpdate_Input_policy" />
        <soap12:header message="tns:ModelMembersBulkUpdateRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkUpdateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_ModelMembersBulkUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkMerge">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkMerge" style="document" />
      <wsdl:input name="ModelMembersBulkMergeRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ModelMembersBulkMerge_Input_policy"
/>
        <soap12:header message="tns:ModelMembersBulkMergeRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkMergeResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_ModelMembersBulkMerge_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gGet" style="document" />
      <wsdl:input name="StagingGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingGet_Input_policy" />
        <soap12:header message="tns:StagingGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingGetResponse">
```



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```
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingClear">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gClear" style="document" />
      <wsdl:input name="StagingClearRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingClear_Input_policy" />
        <soap12:header message="tns:StagingClearRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingClearResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingClear_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionsGet" style="document" />
      <wsdl:input name="TransactionsGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_TransactionsGet_Input_policy" />
        <soap12:header message="tns:TransactionsGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionsGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_TransactionsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionsReverse">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionsReverse" style="document" />
      <wsdl:input name="TransactionsReverseRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_TransactionsReverse_Input_policy"
/>
        <soap12:header message="tns:TransactionsReverseRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionsReverseResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_TransactionsReverse_output_policy"
/>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ValidationGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valida
tionGet" style="document" />
      <wsdl:input name="ValidationGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ValidationGet_Input_policy" />
        <soap12:header message="tns:ValidationGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
```



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```
      </wsdl:input>
      <wsdl:output name="ValidationGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ValidationGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ValidationProcess">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valida
tionProcess" style="document" />
      <wsdl:input name="ValidationProcessRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ValidationProcess_Input_policy" />
        <soap12:header message="tns:ValidationProcessRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ValidationProcessResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ValidationProcess_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAnnotationsCreate" style="document" />
      <wsdl:input name="EntityMemberAnnotationsCreateRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAnnotationsCreate_Input_policy" />
        <soap12:header message="tns:EntityMemberAnnotationsCreateRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsCreateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAnnotationsCreate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionAnnotationsCreate" style="document" />
      <wsdl:input name="TransactionAnnotationsCreateRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_TransactionAnnotationsCreate_Input_policy" />
        <soap12:header message="tns:TransactionAnnotationsCreateRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsCreateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_TransactionAnnotationsCreate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAnnotationsGet" style="document" />
      <wsdl:input name="EntityMemberAnnotationsGetRequest">
```



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```
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAnnotationsGet_Input_policy" />
        <soap12:header message="tns:EntityMemberAnnotationsGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberAnnotationsGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberAnnotationsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionAnnotationsGet" style="document" />
      <wsdl:input name="TransactionAnnotationsGetRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_TransactionAnnotationsGet_Input_policy" />
        <soap12:header message="tns:TransactionAnnotationsGetRequest_Headers"
part="International" use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionAnnotationsGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_TransactionAnnotationsGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AnnotationsUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annota
tionsUpdate" style="document" />
      <wsdl:input name="AnnotationsUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_AnnotationsUpdate_Input_policy" />
        <soap12:header message="tns:AnnotationsUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsUpdateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_AnnotationsUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AnnotationsDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annota
tionsDelete" style="document" />
      <wsdl:input name="AnnotationsDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_AnnotationsDelete_Input_policy" />
        <soap12:header message="tns:AnnotationsDeleteRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsDeleteResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_AnnotationsDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberKeyLookup">
```



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```
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberKeyLookup" style="document" />
      <wsdl:input name="EntityMemberKeyGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_EntityMemberKeyLookup_Input_policy"
/>
        <soap12:header message="tns:EntityMemberKeyGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberKeyGetResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_EntityMemberKeyLookup_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingProcess">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gProcess" style="document" />
      <wsdl:input name="StagingProcessRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingProcess_Input_policy" />
        <soap12:header message="tns:StagingProcessRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingProcessResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_StagingProcess_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewCreate" style="document" />
      <wsdl:input name="ExportViewCreateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewCreate_Input_policy" />
        <soap12:header message="tns:ExportViewCreateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewCreateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewCreate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewUpdate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewUpdate" style="document" />
      <wsdl:input name="ExportViewUpdateRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewUpdate_Input_policy" />
        <soap12:header message="tns:ExportViewUpdateRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewUpdateResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewUpdate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
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    </wsdl:operation>
    <wsdl:operation name="ExportViewDelete">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewDelete" style="document" />
      <wsdl:input name="ExportViewDeleteRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewDelete_Input_policy" />
        <soap12:header message="tns:ExportViewDeleteRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewDeleteResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewDelete_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewListGet">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewListGet" style="document" />
      <wsdl:input name="ExportViewListGetRequest">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewListGet_Input_policy" />
        <soap12:header message="tns:ExportViewListGetRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewListGetResponse">
        <wsp:PolicyReference URI="#WSHttpBinding_IService_ExportViewListGet_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsCreate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsCreate" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsCreate_Input_policy" />
        <soap12:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityCreateResponse">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsCreate_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsClone">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsClone" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsClone_Input_policy" />
        <soap12:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
```



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        <wsp:PolicyReference
URI="#WSHttpBinding_IService_SecurityPrincipalsClone_output_policy" />
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="BasicHttpBinding_IService" type="tns:IService">
    <wsp:PolicyReference URI="#BasicHttpBinding_IService_policy" />
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="SecurityPrincipalsUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsUpdate" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <soap:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsGet" style="document" />
      <wsdl:input name="SecurityPrincipalsGetRequest">
        <soap:header message="tns:SecurityPrincipalsGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityPrincipalsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsDelete" style="document" />
      <wsdl:input name="SecurityPrincipalsDeleteRequest">
        <soap:header message="tns:SecurityPrincipalsDeleteRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesCreate" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <soap:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
```



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    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesClone">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesClone" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <soap:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesUpdate" style="document" />
      <wsdl:input name="SecurityPrivilegesRequest">
        <soap:header message="tns:SecurityPrivilegesRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesGet" style="document" />
      <wsdl:input name="SecurityPrivilegesGetRequest">
        <soap:header message="tns:SecurityPrivilegesGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityPrivilegesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrivilegesDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrivilegesDelete" style="document" />
      <wsdl:input name="SecurityPrivilegesDeleteRequest">
        <soap:header message="tns:SecurityPrivilegesDeleteRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPaletteGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesPaletteGet" style="document" />
      <wsdl:input name="BusinessRulesPaletteGetRequest">
        <soap:header message="tns:BusinessRulesPaletteGetRequest_Headers"
part="International" use="literal" />
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```
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesPaletteGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesClone">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesClone" style="document" />
      <wsdl:input name="BusinessRulesCloneRequest">
        <soap:header message="tns:BusinessRulesCloneRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesCreate" style="document" />
      <wsdl:input name="BusinessRulesCreateRequest">
        <soap:header message="tns:BusinessRulesCreateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesDelete" style="document" />
      <wsdl:input name="BusinessRulesDeleteRequest">
        <soap:header message="tns:BusinessRulesDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesGet" style="document" />
      <wsdl:input name="BusinessRulesGetRequest">
        <soap:header message="tns:BusinessRulesGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="BusinessRulesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesPublish">
```



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```
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesPublish" style="document" />
      <wsdl:input name="BusinessRulesPublishRequest">
        <soap:header message="tns:BusinessRulesPublishRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BusinessRulesUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Busine
ssRulesUpdate" style="document" />
      <wsdl:input name="BusinessRulesUpdateRequest">
        <soap:header message="tns:BusinessRulesUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataClone">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taClone" style="document" />
      <wsdl:input name="MetadataCloneRequest">
        <soap:header message="tns:MetadataCloneRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataCloneResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taCreate" style="document" />
      <wsdl:input name="MetadataCreateRequest">
        <soap:header message="tns:MetadataCreateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taDelete" style="document" />
      <wsdl:input name="MetadataDeleteRequest">
        <soap:header message="tns:MetadataDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
```



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```
      <wsdl:output name="MetadataDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taGet" style="document" />
      <wsdl:input name="MetadataGetRequest">
        <soap:header message="tns:MetadataGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MetadataUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Metada
taUpdate" style="document" />
      <wsdl:input name="MetadataUpdateRequest">
        <soap:header message="tns:MetadataUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MetadataUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingNameCheck">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gNameCheck" style="document" />
      <wsdl:input name="StagingNameCheckRequest">
        <soap:header message="tns:StagingNameCheckRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingNameCheckResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
SettingsGet" style="document" />
      <wsdl:input name="SystemSettingsGetRequest">
        <soap:header message="tns:SystemSettingsGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemSettingsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemSettingsUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
SettingsUpdate" style="document" />
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```
      <wsdl:input name="SystemSettingsUpdateRequest">
        <soap:header message="tns:SystemSettingsUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemSettingsUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemDomainListGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
DomainListGet" style="document" />
      <wsdl:input name="SystemDomainListGetRequest">
        <soap:header message="tns:SystemDomainListGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemDomainListGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemPropertiesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/System
PropertiesGet" style="document" />
      <wsdl:input name="SystemPropertiesGetRequest">
        <soap:header message="tns:SystemPropertiesGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SystemPropertiesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ServiceCheck">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servic
eCheck" style="document" />
      <wsdl:input name="ServiceCheckGetRequest">
        <soap:header message="tns:ServiceCheckGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ServiceVersionGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Servic
eVersionGet" style="document" />
      <wsdl:input name="ServiceVersionGetResponse">
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ServiceVersionGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="VersionCopy">
```



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```
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Versio
nCopy" style="document" />
      <wsdl:input name="VersionCopyRequest">
        <soap:header message="tns:VersionCopyRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="VersionCopyResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesGet" style="document" />
      <wsdl:input name="UserPreferencesGetRequest">
        <soap:header message="tns:UserPreferencesGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesUpdate" style="document" />
      <wsdl:input name="UserPreferencesUpdateRequest">
        <soap:header message="tns:UserPreferencesUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UserPreferencesDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/UserPr
eferencesDelete" style="document" />
      <wsdl:input name="UserPreferencesDeleteRequest">
        <soap:header message="tns:UserPreferencesDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="UserPreferencesDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityInstalledState">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityInstalledState" style="document" />
      <wsdl:input name="DataQualityInstalledStateRequest">
        <soap:header message="tns:DataQualityInstalledStateRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
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```
      <wsdl:output name="DataQualityInstalledStateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityKnowledgeBasesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityKnowledgeBasesGet" style="document" />
      <wsdl:input name="DataQualityKnowledgeBasesGetRequest">
        <soap:header message="tns:DataQualityKnowledgeBasesGetRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityKnowledgeBasesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityCleansingOperationStart">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityCleansingOperationStart" style="document" />
      <wsdl:input name="DataQualityCleansingOperationStartRequest">
        <soap:header message="tns:DataQualityCleansingOperationStartRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStartResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityMatchingOperationStart">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityMatchingOperationStart" style="document" />
      <wsdl:input name="DataQualityMatchingOperationStartRequest">
        <soap:header message="tns:DataQualityMatchingOperationStartRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStartResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationStatus">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityOperationStatus" style="document" />
      <wsdl:input name="DataQualityOperationStatusRequest">
        <soap:header message="tns:DataQualityOperationStatusRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationStatusResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DataQualityOperationResultsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/DataQu
alityOperationResultsGet" style="document" />
```



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```
      <wsdl:input name="DataQualityOperationResultsGetRequest">
        <soap:header message="tns:DataQualityOperationResultsGetRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="DataQualityOperationResultsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersGet" style="document" />
      <wsdl:input name="EntityMembersGetRequest">
        <soap:header message="tns:EntityMembersGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAttributesGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAttributesGet" style="document" />
      <wsdl:input name="EntityMemberAttributesGetRequest">
        <soap:header message="tns:EntityMemberAttributesGetRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberAttributesGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="HierarchyMembersGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Hierar
chyMembersGet" style="document" />
      <wsdl:input name="HierarchyMembersGetRequest">
        <soap:header message="tns:HierarchyMembersGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="HierarchyMembersGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersGet" style="document" />
      <wsdl:input name="ModelMembersGetRequest">
        <soap:header message="tns:ModelMembersGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
```



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```
    </wsdl:operation>
    <wsdl:operation name="EntityMembersCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersCreate" style="document" />
      <wsdl:input name="EntityMembersCreateRequest">
        <soap:header message="tns:EntityMembersCreateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersDelete" style="document" />
      <wsdl:input name="EntityMembersDeleteRequest">
        <soap:header message="tns:EntityMembersDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersUpdate" style="document" />
      <wsdl:input name="EntityMembersUpdateRequest">
        <soap:header message="tns:EntityMembersUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersCopy">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersCopy" style="document" />
      <wsdl:input name="EntityMembersCopyRequest">
        <soap:header message="tns:EntityMembersCopyRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersCopyResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMembersMerge">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MembersMerge" style="document" />
      <wsdl:input name="EntityMembersMergeRequest">
        <soap:header message="tns:EntityMembersMergeRequest_Headers" part="International"
use="literal" />
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```
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMembersMergeResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingLoad">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingLoad" style="document" />
      <wsdl:input name="EntityStagingLoadRequest">
        <soap:header message="tns:EntityStagingLoadRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingLoadResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingGet" style="document" />
      <wsdl:input name="EntityStagingGetRequest">
        <soap:header message="tns:EntityStagingGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingClear">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingClear" style="document" />
      <wsdl:input name="EntityStagingClearRequest">
        <soap:header message="tns:EntityStagingClearRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingClearResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityStagingProcess">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
StagingProcess" style="document" />
      <wsdl:input name="EntityStagingProcessRequest">
        <soap:header message="tns:EntityStagingProcessRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityStagingProcessResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkDelete">
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```
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkDelete" style="document" />
      <wsdl:input name="ModelMembersBulkDeleteRequest">
        <soap:header message="tns:ModelMembersBulkDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkUpdate" style="document" />
      <wsdl:input name="ModelMembersBulkUpdateRequest">
        <soap:header message="tns:ModelMembersBulkUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModelMembersBulkMerge">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/ModelM
embersBulkMerge" style="document" />
      <wsdl:input name="ModelMembersBulkMergeRequest">
        <soap:header message="tns:ModelMembersBulkMergeRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ModelMembersBulkMergeResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gGet" style="document" />
      <wsdl:input name="StagingGetRequest">
        <soap:header message="tns:StagingGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingClear">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gClear" style="document" />
      <wsdl:input name="StagingClearRequest">
        <soap:header message="tns:StagingClearRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
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```
      <wsdl:output name="StagingClearResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionsGet" style="document" />
      <wsdl:input name="TransactionsGetRequest">
        <soap:header message="tns:TransactionsGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionsReverse">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionsReverse" style="document" />
      <wsdl:input name="TransactionsReverseRequest">
        <soap:header message="tns:TransactionsReverseRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionsReverseResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ValidationGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valida
tionGet" style="document" />
      <wsdl:input name="ValidationGetRequest">
        <soap:header message="tns:ValidationGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ValidationGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ValidationProcess">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Valida
tionProcess" style="document" />
      <wsdl:input name="ValidationProcessRequest">
        <soap:header message="tns:ValidationProcessRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ValidationProcessResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAnnotationsCreate" style="document" />
```



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```
      <wsdl:input name="EntityMemberAnnotationsCreateRequest">
        <soap:header message="tns:EntityMemberAnnotationsCreateRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionAnnotationsCreate" style="document" />
      <wsdl:input name="TransactionAnnotationsCreateRequest">
        <soap:header message="tns:TransactionAnnotationsCreateRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberAnnotationsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberAnnotationsGet" style="document" />
      <wsdl:input name="EntityMemberAnnotationsGetRequest">
        <soap:header message="tns:EntityMemberAnnotationsGetRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberAnnotationsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="TransactionAnnotationsGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Transa
ctionAnnotationsGet" style="document" />
      <wsdl:input name="TransactionAnnotationsGetRequest">
        <soap:header message="tns:TransactionAnnotationsGetRequest_Headers"
part="International" use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="TransactionAnnotationsGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AnnotationsUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annota
tionsUpdate" style="document" />
      <wsdl:input name="AnnotationsUpdateRequest">
        <soap:header message="tns:AnnotationsUpdateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
```



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```
    </wsdl:operation>
    <wsdl:operation name="AnnotationsDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Annota
tionsDelete" style="document" />
      <wsdl:input name="AnnotationsDeleteRequest">
        <soap:header message="tns:AnnotationsDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="AnnotationsDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="EntityMemberKeyLookup">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Entity
MemberKeyLookup" style="document" />
      <wsdl:input name="EntityMemberKeyGetRequest">
        <soap:header message="tns:EntityMemberKeyGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="EntityMemberKeyGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StagingProcess">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Stagin
gProcess" style="document" />
      <wsdl:input name="StagingProcessRequest">
        <soap:header message="tns:StagingProcessRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="StagingProcessResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewCreate" style="document" />
      <wsdl:input name="ExportViewCreateRequest">
        <soap:header message="tns:ExportViewCreateRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewUpdate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewUpdate" style="document" />
      <wsdl:input name="ExportViewUpdateRequest">
        <soap:header message="tns:ExportViewUpdateRequest_Headers" part="International"
use="literal" />
```



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```
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewUpdateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewDelete">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewDelete" style="document" />
      <wsdl:input name="ExportViewDeleteRequest">
        <soap:header message="tns:ExportViewDeleteRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewDeleteResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ExportViewListGet">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Export
ViewListGet" style="document" />
      <wsdl:input name="ExportViewListGetRequest">
        <soap:header message="tns:ExportViewListGetRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="ExportViewListGetResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsCreate">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsCreate" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <soap:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="SecurityCreateResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SecurityPrincipalsClone">
      <soap:operation
soapAction="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09/IService/Securi
tyPrincipalsClone" style="document" />
      <wsdl:input name="SecurityPrincipalsRequest">
        <soap:header message="tns:SecurityPrincipalsRequest_Headers" part="International"
use="literal" />
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output name="MessageResponse">
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="Service">
```



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```
    <wsdl:port name="WSHttpBinding_IService" binding="tns:WSHttpBinding_IService">
      <soap12:address
location="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc" />
      <wsa10:EndpointReference>

<wsa10:Address>http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc</wsa10:
Address>
        <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
          <Upn>brenmc@redmond.corp.microsoft.com</Upn>
        </Identity>
      </wsa10:EndpointReference>
    </wsdl:port>
    <wsdl:port name="BasicHttpBinding_IService" binding="tns:BasicHttpBinding_IService">
      <soap:address
location="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc/bhb" />
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>
```

## 6.2 Master Data Services Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d1" namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d3" namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d4" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:element name="SecurityPrincipalsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Principals" nillable="true" type="q1:SecurityPrincipals" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecurityPrincipals">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q2="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q2:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Groups" nillable="true" type="q2:ArrayOfGroup">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Users" nillable="true" type="q2:ArrayOfUser">
```



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```
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q3="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrincipals" nillable="true" type="q3:SecurityPrincipals" />
  <xs:complexType name="DataContractBase">
    <xs:sequence />
  </xs:complexType>
  <xs:element xmlns:q4="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DataContractBase" nillable="true" type="q4:DataContractBase" />
  <xs:complexType name="ArrayOfGroup">
    <xs:sequence>
      <xs:element
xmlns:q5="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Group" nillable="true" type="q5:Group" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q6="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfGroup" nillable="true" type="q6:ArrayOfGroup" />
  <xs:complexType name="Group">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q7="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q7:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q7:AuditInfo" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="GroupType" type="q7:GroupType" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q7:Identifier" />
          <xs:element minOccurs="0" name="SID" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SecurityPrivilege" nillable="true"
type="q7:SecurityPrivileges">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="UserAssignments" nillable="true"
type="q7:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```



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```
  <xs:element xmlns:q8="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Group" nillable="true" type="q8:Group" />
  <xs:complexType name="AuditInfo">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q9="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q9:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="CreatedDateTime" type="xs:dateTime" />
          <xs:element minOccurs="0" name="CreatedUserId" nillable="true"
type="q9:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="CreatedVersionId" nillable="true"
type="q9:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="UpdatedDateTime" type="xs:dateTime" />
          <xs:element minOccurs="0" name="UpdatedUserId" nillable="true"
type="q9:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="UpdatedVersionId" nillable="true"
type="q9:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q10="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="AuditInfo" nillable="true" type="q10:AuditInfo" />
  <xs:complexType name="Identifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q11="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q11:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Id" type="ser:guid" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
```



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```
          <xs:element minOccurs="0" name="InternalId" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q12="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Identifier" nillable="true" type="q12:Identifier" />
  <xs:complexType name="MemberAttributeIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q13="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q13:MemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q13:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q14="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberAttributeIdentifier" nillable="true" type="q14:MemberAttributeIdentifier" />
  <xs:complexType name="MemberTypeContextIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q15="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q15:EntityContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberType" type="q15:MemberType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q16="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberTypeContextIdentifier" nillable="true" type="q16:MemberTypeContextIdentifier" />
  <xs:complexType name="EntityContextIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q17="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q17:ModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q17:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
```



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```
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q18="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityContextIdentifier" nillable="true" type="q18:EntityContextIdentifier" />
  <xs:complexType name="ModelContextIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q19="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q19:Identifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q19:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q20="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelContextIdentifier" nillable="true" type="q20:ModelContextIdentifier" />
  <xs:complexType name="DerivedHierarchyContextIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q21="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q21:ModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DerivedHierarchyId" nillable="true"
type="q21:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q22="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DerivedHierarchyContextIdentifier" nillable="true"
type="q22:DerivedHierarchyContextIdentifier" />
  <xs:complexType name="MemberIdentifier">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q23="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q23:Identifier">
        <xs:sequence>
          <xs:element name="Code" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="MemberType" type="q23:MemberType">
            <xs:annotation>
              <xs:appinfo>
```



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```
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q24="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberIdentifier" nillable="true" type="q24:MemberIdentifier" />
  <xs:simpleType name="MemberType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Leaf" />
      <xs:enumeration value="Consolidated" />
      <xs:enumeration value="Collection" />
      <xs:enumeration value="Hierarchy" />
      <xs:enumeration value="CollectionMember" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q25="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberType" nillable="true" type="q25:MemberType" />
  <xs:simpleType name="GroupType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="InternalGroup" />
      <xs:enumeration value="ActiveDirectoryGroup" />
      <xs:enumeration value="LocalGroup" />
      <xs:enumeration value="OtherGroup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q26="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="GroupType" nillable="true" type="q26:GroupType" />
  <xs:complexType name="SecurityPrivileges">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q27="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q27:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="FunctionPrivileges" nillable="true"
type="q27:ArrayOfFunctionPrivilege">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyMemberPrivileges" nillable="true"
type="q27:ArrayOfHierarchyMemberPrivilege">
            <xs:annotation>
              <xs:appinfo>
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```
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelPrivileges" nillable="true"
type="q27:ArrayOfModelPrivilege">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q28="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrivileges" nillable="true" type="q28:SecurityPrivileges" />
  <xs:complexType name="ArrayOfFunctionPrivilege">
    <xs:sequence>
      <xs:element
xmlns:q29="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="FunctionPrivilege" nillable="true" type="q29:FunctionPrivilege"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q30="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfFunctionPrivilege" nillable="true" type="q30:ArrayOfFunctionPrivilege" />
  <xs:complexType name="FunctionPrivilege">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q31="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q31:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q31:AuditInfo" />
          <xs:element minOccurs="0" name="Function" type="q31:FunctionalArea" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q31:Identifier"
/>
          <xs:element minOccurs="0" name="IsAuthorized" type="xs:boolean" />
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q31:Identifier"
/>
          <xs:element minOccurs="0" name="PrincipalType" type="q31:PrincipalType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q32="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="FunctionPrivilege" nillable="true" type="q32:FunctionPrivilege" />
  <xs:simpleType name="FunctionalArea">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Explorer" />
      <xs:enumeration value="Versions" />
      <xs:enumeration value="ImportExport" />
      <xs:enumeration value="Security" />
      <xs:enumeration value="SystemAdministration" />
    </xs:restriction>
  </xs:simpleType>
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```
  <xs:element xmlns:q33="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="FunctionalArea" nillable="true" type="q33:FunctionalArea" />
  <xs:simpleType name="PrincipalType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="UserAccount" />
      <xs:enumeration value="Group" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q34="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="PrincipalType" nillable="true" type="q34:PrincipalType" />
  <xs:complexType name="ArrayOfHierarchyMemberPrivilege">
    <xs:sequence>
      <xs:element
xmlns:q35="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="HierarchyMemberPrivilege" nillable="true"
type="q35:HierarchyMemberPrivilege" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q36="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfHierarchyMemberPrivilege" nillable="true"
type="q36:ArrayOfHierarchyMemberPrivilege" />
  <xs:complexType name="HierarchyMemberPrivilege">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q37="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q37:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q37:AuditInfo" />
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyType" type="q37:HierarchyType" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsModelAdministrator" type="xs:boolean" />
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q37:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q37:Permission" />
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PrincipalType" type="q37:PrincipalType" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q37:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q38="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyMemberPrivilege" nillable="true" type="q38:HierarchyMemberPrivilege" />
  <xs:simpleType name="HierarchyType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Explicit" />
      <xs:enumeration value="Derived" />
      <xs:enumeration value="Collection" />
      <xs:enumeration value="All" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q39="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyType" nillable="true" type="q39:HierarchyType" />
  <xs:simpleType name="Permission">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Deny" />
      <xs:enumeration value="Update" />
      <xs:enumeration value="ReadOnly" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q40="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Permission" nillable="true" type="q40:Permission" />
  <xs:complexType name="ArrayOfModelPrivilege">
    <xs:sequence>
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      <xs:element
xmlns:q41="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ModelPrivilege" nillable="true" type="q41:ModelPrivilege" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q42="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfModelPrivilege" nillable="true" type="q42:ArrayOfModelPrivilege" />
  <xs:complexType name="ModelPrivilege">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q43="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q43:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q43:AuditInfo" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q43:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsModelAdministrator" type="xs:boolean" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q43:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ObjectId" nillable="true" type="q43:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ObjectType" type="q43:ModelObjectType" />
          <xs:element minOccurs="0" name="Permission" type="q43:Permission" />
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q43:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PrincipalType" type="q43:PrincipalType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q44="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelPrivilege" nillable="true" type="q44:ModelPrivilege" />
  <xs:simpleType name="ModelObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Model" />
```



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```
      <xs:enumeration value="Entity">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Attribute">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="AttributeGroup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ExplicitHierarchy">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DerivedHierarchy">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="LeafMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ConsolidatedMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="CollectionMemberType">
        <xs:annotation>
          <xs:appinfo>
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            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q45="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelObjectType" nillable="true" type="q45:ModelObjectType" />
  <xs:complexType name="ArrayOfIdentifier">
    <xs:sequence>
      <xs:element
xmlns:q46="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Identifier" nillable="true" type="q46:Identifier" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q47="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfIdentifier" nillable="true" type="q47:ArrayOfIdentifier" />
  <xs:complexType name="ArrayOfUser">
    <xs:sequence>
      <xs:element
xmlns:q48="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="User" nillable="true" type="q48:User" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q49="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfUser" nillable="true" type="q49:ArrayOfUser" />
  <xs:complexType name="User">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q50="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q50:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q50:AuditInfo" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="EmailFormat" type="q50:EmailFormat" />
          <xs:element minOccurs="0" name="GroupPrivileges" nillable="true"
type="q50:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q50:Identifier"
/>
          <xs:element minOccurs="0" name="LastLogOn" type="xs:dateTime" />
          <xs:element minOccurs="0" name="LoggedIn" type="xs:boolean" />
          <xs:element minOccurs="0" name="SID" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SecurityPrivilege" nillable="true"
type="q50:SecurityPrivileges">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
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          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q51="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="User" nillable="true" type="q51:User" />
  <xs:simpleType name="EmailFormat">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="HTML" />
      <xs:enumeration value="Text" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q52="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EmailFormat" nillable="true" type="q52:EmailFormat" />
  <xs:element name="MessageResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q53="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q53:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="OperationResult">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q54="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q54:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Errors" nillable="true" type="q54:ArrayOfError">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="RequestId" type="ser:guid">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q55="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="OperationResult" nillable="true" type="q55:OperationResult" />
  <xs:complexType name="ArrayOfError">
    <xs:sequence>
      <xs:element
xmlns:q56="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Error" nillable="true" type="q56:Error" />
    </xs:sequence>
  </xs:complexType>
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  <xs:element xmlns:q57="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfError" nillable="true" type="q57:ArrayOfError" />
  <xs:complexType name="Error">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q58="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q58:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Code" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Context" nillable="true" type="q58:ErrorContext" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q59="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Error" nillable="true" type="q59:Error" />
  <xs:complexType name="ErrorContext">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q60="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q60:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q60:Identifier"
/>
          <xs:element minOccurs="0" name="Type" type="q60:ObjectType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q61="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ErrorContext" nillable="true" type="q61:ErrorContext" />
  <xs:simpleType name="ObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown" />
      <xs:enumeration value="Model" />
      <xs:enumeration value="DerivedHierarchy" />
      <xs:enumeration value="DerivedHierarchyLevel" />
      <xs:enumeration value="Version" />
      <xs:enumeration value="Entity" />
      <xs:enumeration value="Hierarchy" />
      <xs:enumeration value="Attribute" />
      <xs:enumeration value="AttributeGroup" />
      <xs:enumeration value="StagingBatch" />
      <xs:enumeration value="VersionFlag" />
      <xs:enumeration value="User" />
      <xs:enumeration value="MemberCode" />
      <xs:enumeration value="Annotation" />
      <xs:enumeration value="BusinessRule" />
      <xs:enumeration value="BusinessRuleConditionTreeNode" />
      <xs:enumeration value="BusinessRuleItem" />
      <xs:enumeration value="BusinessRuleArgument" />
      <xs:enumeration value="Transaction" />
      <xs:enumeration value="MemberId" />
      <xs:enumeration value="ExportView" />
      <xs:enumeration value="UserGroup" />
      <xs:enumeration value="MemberAttribute" />
    </xs:restriction>
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  </xs:simpleType>
  <xs:element xmlns:q62="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ObjectType" nillable="true" type="q62:ObjectType" />
  <xs:element name="SecurityPrincipalsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q63="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Criteria" nillable="true" type="q63:SecurityPrincipalsCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecurityPrincipalsCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q64="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q64:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="All" type="xs:boolean" />
          <xs:element minOccurs="0" name="FunctionPrivilege" type="q64:ResultType" />
          <xs:element minOccurs="0" name="HierarchyMemberPrivilege" type="q64:ResultType" />
          <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="q64:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelPrivilege" type="q64:ResultType" />
          <xs:element minOccurs="0" name="ResultType" type="q64:ResultType" />
          <xs:element minOccurs="0" name="SecurityResolutionType"
type="q64:SecurityResolutionType" />
          <xs:element minOccurs="0" name="Type" type="q64:PrincipalType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q65="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrincipalsCriteria" nillable="true" type="q65:SecurityPrincipalsCriteria" />
  <xs:simpleType name="ResultType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Identifiers" />
      <xs:enumeration value="Details" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q66="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ResultType" nillable="true" type="q66:ResultType" />
  <xs:simpleType name="SecurityResolutionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="UserAndGroup" />
      <xs:enumeration value="Users" />
      <xs:enumeration value="Effective" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q67="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityResolutionType" nillable="true" type="q67:SecurityResolutionType" />
  <xs:element name="SecurityPrincipalsGetResponse">
```



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```
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q68="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q68:OperationResult" />
        <xs:element
xmlns:q69="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Principals" nillable="true" type="q69:SecurityPrincipals" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SecurityPrincipalsDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q70="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Criteria" nillable="true" type="q70:SecurityPrincipalsDeleteCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecurityPrincipalsDeleteCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q71="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q71:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Groups" nillable="true"
type="q71:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Users" nillable="true"
type="q71:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q72="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrincipalsDeleteCriteria" nillable="true"
type="q72:SecurityPrincipalsDeleteCriteria" />
  <xs:element name="SecurityPrivilegesRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q73="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Privileges" nillable="true" type="q73:SecurityPrivileges" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
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```
  <xs:element name="SecurityCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q74="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q74:OperationResult" />
        <xs:element
xmlns:q75="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SecuritySet" nillable="true" type="q75:SecuritySet" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecuritySet">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q76="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q76:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Principal" nillable="true"
type="q76:SecurityPrincipals">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Privilege" nillable="true"
type="q76:SecurityPrivileges">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q77="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecuritySet" nillable="true" type="q77:SecuritySet" />
  <xs:element name="SecurityPrivilegesGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q78="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Criteria" nillable="true" type="q78:SecurityPrivilegesGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecurityPrivilegesGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q79="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q79:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="FunctionPrivilegesCriteria" nillable="true"
type="q79:FunctionPrivilegesCriteria">
            <xs:annotation>
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```
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyMemberPrivilegesCriteria" nillable="true"
type="q79:HierarchyMemberPrivilegesCriteria">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelPrivilegesCriteria" nillable="true"
type="q79:ModelPrivilegesCriteria">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q80="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrivilegesGetCriteria" nillable="true" type="q80:SecurityPrivilegesGetCriteria"
/>
  <xs:complexType name="FunctionPrivilegesCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q81="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q81:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="q81:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsAuthorized" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q81:Identifier"
/>
          <xs:element minOccurs="0" name="PrincipalType" type="q81:PrincipalType" />
          <xs:element minOccurs="0" name="ResultType" type="q81:ResultType" />
        </xs:sequence>
      </xs:extension>
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    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q82="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="FunctionPrivilegesCriteria" nillable="true" type="q82:FunctionPrivilegesCriteria" />
  <xs:complexType name="HierarchyMemberPrivilegesCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q83="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q83:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q83:Identifier" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="q83:Identifier"
/>
          <xs:element minOccurs="0" name="HierarchyType" type="q83:HierarchyType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="q83:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q83:Identifier" />
          <xs:element minOccurs="0" name="Permission" type="q83:Permission" />
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q83:Identifier"
/>
          <xs:element minOccurs="0" name="PrincipalType" type="q83:PrincipalType" />
          <xs:element minOccurs="0" name="ResultType" type="q83:ResultType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q84="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyMemberPrivilegesCriteria" nillable="true"
type="q84:HierarchyMemberPrivilegesCriteria" />
  <xs:complexType name="ModelPrivilegesCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q85="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q85:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Identifiers" nillable="true"
type="q85:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q85:Identifier" />
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          <xs:element minOccurs="0" name="ObjectId" nillable="true" type="q85:Identifier" />
          <xs:element minOccurs="0" name="Permission" type="q85:Permission" />
          <xs:element minOccurs="0" name="PrincipalId" nillable="true" type="q85:Identifier"
/>
          <xs:element minOccurs="0" name="PrincipalType" type="q85:PrincipalType" />
          <xs:element minOccurs="0" name="ResultType" type="q85:ResultType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q86="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelPrivilegesCriteria" nillable="true" type="q86:ModelPrivilegesCriteria" />
  <xs:element name="SecurityPrivilegesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q87="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q87:OperationResult" />
        <xs:element
xmlns:q88="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Privileges" nillable="true" type="q88:SecurityPrivileges" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SecurityPrivilegesDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q89="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Criteria" nillable="true" type="q89:SecurityPrivilegesDeleteCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SecurityPrivilegesDeleteCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q90="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q90:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="FunctionPrivileges" nillable="true"
type="q90:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyMemberPrivileges" nillable="true"
type="q90:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelPrivileges" nillable="true"
type="q90:ArrayOfIdentifier">
            <xs:annotation>
```



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              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q91="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPrivilegesDeleteCriteria" nillable="true"
type="q91:SecurityPrivilegesDeleteCriteria" />
  <xs:element name="BusinessRulesPaletteGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q92="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberType" type="q92:BREntityMemberType" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="BREntityMemberType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Leaf" />
      <xs:enumeration value="Consolidated" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q93="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BREntityMemberType" nillable="true" type="q93:BREntityMemberType" />
  <xs:element name="BusinessRulesPaletteGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q94="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRulesPalette" nillable="true" type="q94:BusinessRulesPalette" />
        <xs:element
xmlns:q95="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q95:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="BusinessRulesPalette">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q96="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q96:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BRActionGroups" nillable="true"
type="q96:ArrayOfBRActionGroup">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BRConditionGroups" nillable="true"
type="q96:ArrayOfBRConditionGroup">
```



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```
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q97="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BusinessRulesPalette" nillable="true" type="q97:BusinessRulesPalette" />
  <xs:complexType name="ArrayOfBRActionGroup">
    <xs:sequence>
      <xs:element
xmlns:q98="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRActionGroup" nillable="true" type="q98:BRActionGroup" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q99="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRActionGroup" nillable="true" type="q99:ArrayOfBRActionGroup" />
  <xs:complexType name="BRActionGroup">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q100="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q100:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BRActionComponents" nillable="true"
type="q100:ArrayOfBRActionComponent">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q101="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRActionGroup" nillable="true" type="q101:BRActionGroup" />
  <xs:complexType name="ArrayOfBRActionComponent">
    <xs:sequence>
      <xs:element
xmlns:q102="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRActionComponent" nillable="true" type="q102:BRActionComponent"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q103="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRActionComponent" nillable="true" type="q103:ArrayOfBRActionComponent" />
  <xs:complexType name="BRActionComponent">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q104="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q104:BRItemTypeComponent">
        <xs:sequence />
```



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```
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q105="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRActionComponent" nillable="true" type="q105:BRActionComponent" />
  <xs:complexType name="BRItemTypeComponent">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q106="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q106:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="CompatibleAttributeTypes" nillable="true"
type="q106:ArrayOfBRAttributeTypeInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ItemType" type="q106:BRItemType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q107="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRItemTypeComponent" nillable="true" type="q107:BRItemTypeComponent" />
  <xs:complexType name="ArrayOfBRAttributeTypeInfo">
    <xs:sequence>
      <xs:element
xmlns:q108="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRAttributeTypeInfo" nillable="true"
type="q108:BRAttributeTypeInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q109="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRAttributeTypeInfo" nillable="true" type="q109:ArrayOfBRAttributeTypeInfo" />
  <xs:complexType name="BRAttributeTypeInfo">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q110="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q110:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeDataTypes" nillable="true"
type="q110:ArrayOfAttributeDataType" />
          <xs:element minOccurs="0" name="AttributeType" type="q110:AttributeType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q111="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRAttributeTypeInfo" nillable="true" type="q111:BRAttributeTypeInfo" />
  <xs:complexType name="ArrayOfAttributeDataType">
    <xs:sequence>
      <xs:element
xmlns:q112="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="AttributeDataType" type="q112:AttributeDataType" />
    </xs:sequence>
  </xs:complexType>
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```
  <xs:element xmlns:q113="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfAttributeDataType" nillable="true" type="q113:ArrayOfAttributeDataType" />
  <xs:simpleType name="AttributeDataType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Text" />
      <xs:enumeration value="Number" />
      <xs:enumeration value="DateTime" />
      <xs:enumeration value="Link">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q114="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="AttributeDataType" nillable="true" type="q114:AttributeDataType" />
  <xs:simpleType name="AttributeType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="FreeForm" />
      <xs:enumeration value="Domain" />
      <xs:enumeration value="System" />
      <xs:enumeration value="File" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q115="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="AttributeType" nillable="true" type="q115:AttributeType" />
  <xs:simpleType name="BRItemType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="IsEqual" />
      <xs:enumeration value="IsNotEqual" />
      <xs:enumeration value="Contains" />
      <xs:enumeration value="StartsWith" />
      <xs:enumeration value="EndsWith" />
      <xs:enumeration value="ContainsSubset" />
      <xs:enumeration value="IsGreaterThan" />
      <xs:enumeration value="IsGreaterThanOrEqual" />
      <xs:enumeration value="IsLessThan" />
      <xs:enumeration value="IsLessThanOrEqual" />
      <xs:enumeration value="IsBetween" />
      <xs:enumeration value="DefaultsToValue" />
      <xs:enumeration value="DefaultsToGeneratedValue" />
      <xs:enumeration value="EqualsValue" />
      <xs:enumeration value="EqualsConcatenatedValue" />
      <xs:enumeration value="MustBeGreaterThan" />
      <xs:enumeration value="MustBeGreaterThanOrEqual" />
      <xs:enumeration value="MustBeLessThan" />
      <xs:enumeration value="MustBeLessThanOrEqual" />
      <xs:enumeration value="MustBeBetween" />
      <xs:enumeration value="MinimumLength" />
      <xs:enumeration value="MaximumLength" />
      <xs:enumeration value="AllowableValues" />
      <xs:enumeration value="Unique" />
      <xs:enumeration value="Mandatory" />
```



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```
      <xs:enumeration value="Invalid">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">27</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DefaultsToConcatenatedValue">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MustBeEqual">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ContainsPattern">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">30</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="MustContainPattern">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">31</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="StartSiteWorkflow">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">32</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasChanged">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">33</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q116="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRItemType" nillable="true" type="q116:BRItemType" />
```



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```
  <xs:complexType name="BRConditionComponent">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q117="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q117:BRItemTypeComponent">
        <xs:sequence />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q118="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRConditionComponent" nillable="true" type="q118:BRConditionComponent" />
  <xs:complexType name="ArrayOfBRConditionGroup">
    <xs:sequence>
      <xs:element
xmlns:q119="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRConditionGroup" nillable="true" type="q119:BRConditionGroup" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q120="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRConditionGroup" nillable="true" type="q120:ArrayOfBRConditionGroup" />
  <xs:complexType name="BRConditionGroup">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q121="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q121:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BRConditionComponents" nillable="true"
type="q121:ArrayOfBRConditionComponent" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q122="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRConditionGroup" nillable="true" type="q122:BRConditionGroup" />
  <xs:complexType name="ArrayOfBRConditionComponent">
    <xs:sequence>
      <xs:element
xmlns:q123="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRConditionComponent" nillable="true"
type="q123:BRConditionComponent" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q124="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRConditionComponent" nillable="true" type="q124:ArrayOfBRConditionComponent" />
  <xs:element name="BusinessRulesCloneRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q125="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q125:BusinessRules" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="BusinessRules">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q126="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q126:DataContractBase">
        <xs:sequence>
```



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```
          <xs:element minOccurs="0" name="BRActions" nillable="true"
type="q126:ArrayOfBRAction">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BRConditionTreeNodes" nillable="true"
type="q126:ArrayOfBRConditionTreeNode">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BRConditions" nillable="true"
type="q126:ArrayOfBRCondition">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BusinessRules" nillable="true"
type="q126:ArrayOfBusinessRule">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q127="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BusinessRules" nillable="true" type="q127:BusinessRules" />
  <xs:complexType name="ArrayOfBRAction">
    <xs:sequence>
      <xs:element
xmlns:q128="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRAction" nillable="true" type="q128:BRAction" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q129="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRAction" nillable="true" type="q129:ArrayOfBRAction" />
  <xs:complexType name="BRAction">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q130="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q130:BRItem">
        <xs:sequence>
          <xs:element minOccurs="0" name="PrefixArgument" nillable="true"
type="q130:BRAttributeArgument" />
        </xs:sequence>
```



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```
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q131="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRAction" nillable="true" type="q131:BRAction" />
  <xs:complexType name="BRItem">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q132="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q132:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q132:AuditInfo" />
          <xs:element minOccurs="0" name="BusinessRuleId" nillable="true"
type="q132:MemberTypeContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q132:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Operator" type="q132:BRItemType" />
          <xs:element xmlns:q133="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="PostfixArguments" nillable="true" type="q133:ArrayOfanyType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Sequence" type="xs:int" />
          <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q134="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRItem" nillable="true" type="q134:BRItem" />
  <xs:complexType name="BRBlankArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q135="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q135:BRArgument">
        <xs:sequence />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q136="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRBlankArgument" nillable="true" type="q136:BRBlankArgument" />
  <xs:complexType name="BRArgument">
    <xs:complexContent mixed="false">
```



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```
      <xs:extension
xmlns:q137="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q137:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q137:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PropertyName" type="q137:BRPropertyName" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q138="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRArgument" nillable="true" type="q138:BRArgument" />
  <xs:simpleType name="BRPropertyName">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Value" />
      <xs:enumeration value="StartPosition" />
      <xs:enumeration value="RangeLow" />
      <xs:enumeration value="RangeHigh" />
      <xs:enumeration value="StartingValue" />
      <xs:enumeration value="IncrementValue" />
      <xs:enumeration value="Length" />
      <xs:enumeration value="Substring" />
      <xs:enumeration value="Anchor" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q139="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRPropertyName" nillable="true" type="q139:BRPropertyName" />
  <xs:complexType name="BRDomainBasedAttributeArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q140="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q140:BRAttributeArgumentBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ChildArgument" nillable="true"
type="q140:BRAttributeArgument" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q141="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRDomainBasedAttributeArgument" nillable="true"
type="q141:BRDomainBasedAttributeArgument" />
  <xs:complexType name="BRAttributeArgumentBase">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q142="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q142:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true" type="q142:Identifier"
/>
        </xs:sequence>
      </xs:extension>
```



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```
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q143="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRAttributeArgumentBase" nillable="true" type="q143:BRAttributeArgumentBase" />
  <xs:complexType name="BRAttributeArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q144="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q144:BRAttributeArgumentBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ChildArguments" nillable="true"
type="q144:ArrayOfBRFreeformArgument">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q145="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRAttributeArgument" nillable="true" type="q145:BRAttributeArgument" />
  <xs:complexType name="ArrayOfBRFreeformArgument">
    <xs:sequence>
      <xs:element
xmlns:q146="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRFreeformArgument" nillable="true"
type="q146:BRFreeformArgument" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q147="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRFreeformArgument" nillable="true" type="q147:ArrayOfBRFreeformArgument" />
  <xs:complexType name="BRFreeformArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q148="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q148:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q149="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRFreeformArgument" nillable="true" type="q149:BRFreeformArgument" />
  <xs:complexType name="BRHierarchyArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q150="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q150:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="ChildArgument" nillable="true"
type="q150:BRAttributeArgument" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q150:Identifier">
            <xs:annotation>
              <xs:appinfo>
```



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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q151="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRHierarchyArgument" nillable="true" type="q151:BRHierarchyArgument" />
  <xs:complexType name="BRAttributeValueArgument">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q152="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q152:BRArgument">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeCode" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q153="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRAttributeValueArgument" nillable="true" type="q153:BRAttributeValueArgument" />
  <xs:complexType name="BRCondition">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q154="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q154:BRItem">
        <xs:sequence>
          <xs:element minOccurs="0" name="ConditionTreeNodeId" nillable="true"
type="q154:Identifier" />
          <xs:element minOccurs="0" name="PrefixArgument" nillable="true" type="xs:anyType"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q155="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRCondition" nillable="true" type="q155:BRCondition" />
  <xs:complexType name="ArrayOfBRConditionTreeNode">
    <xs:sequence>
      <xs:element
xmlns:q156="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRConditionTreeNode" nillable="true"
type="q156:BRConditionTreeNode" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q157="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRConditionTreeNode" nillable="true" type="q157:ArrayOfBRConditionTreeNode" />
  <xs:complexType name="BRConditionTreeNode">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q158="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q158:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q158:AuditInfo" />
          <xs:element minOccurs="0" name="BRConditions" nillable="true"
type="q158:ArrayOfBRCondition">
            <xs:annotation>
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```
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BusinessRuleId" nillable="true"
type="q158:MemberTypeContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ConditionTreeChildNodes" nillable="true"
type="q158:ArrayOfBRConditionTreeNode">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ConditionTreeParentNode" nillable="true"
type="q158:Identifier" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q158:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="LogicalOperator" type="q158:LogicalOperator" />
          <xs:element minOccurs="0" name="Sequence" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q159="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRConditionTreeNode" nillable="true" type="q159:BRConditionTreeNode" />
  <xs:complexType name="ArrayOfBRCondition">
    <xs:sequence>
      <xs:element
xmlns:q160="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BRCondition" nillable="true" type="q160:BRCondition" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q161="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBRCondition" nillable="true" type="q161:ArrayOfBRCondition" />
  <xs:simpleType name="LogicalOperator">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="And" />
      <xs:enumeration value="Or" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q162="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="LogicalOperator" nillable="true" type="q162:LogicalOperator" />
```



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```
  <xs:complexType name="ArrayOfBusinessRule">
    <xs:sequence>
      <xs:element
xmlns:q163="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="BusinessRule" nillable="true" type="q163:BusinessRule" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q164="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfBusinessRule" nillable="true" type="q164:ArrayOfBusinessRule" />
  <xs:complexType name="BusinessRule">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q165="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q165:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q165:AuditInfo" />
          <xs:element minOccurs="0" name="BRActions" nillable="true"
type="q165:ArrayOfBRAction">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BRConditionTree" nillable="true"
type="q165:BRConditionTreeNode" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Identifier" nillable="true"
type="q165:MemberTypeContextIdentifier" />
          <xs:element minOccurs="0" name="NotificationGroup" nillable="true" type="ser:guid"
/>
          <xs:element minOccurs="0" name="NotificationUser" nillable="true" type="ser:guid"
/>
          <xs:element minOccurs="0" name="Priority" type="xs:int" />
          <xs:element minOccurs="0" name="RuleActionText" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="RuleConditionText" nillable="true" type="xs:string"
/>
          <xs:element minOccurs="0" name="Status" type="q165:BRStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q166="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BusinessRule" nillable="true" type="q166:BusinessRule" />
  <xs:simpleType name="BRStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Undefined" />
      <xs:enumeration value="Active" />
      <xs:enumeration value="Excluded" />
      <xs:enumeration value="PendingActivation" />
      <xs:enumeration value="PendingChanges" />
      <xs:enumeration value="PendingExclusion" />
      <xs:enumeration value="PendingDeletion" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q167="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRStatus" nillable="true" type="q167:BRStatus" />
  <xs:element name="BusinessRulesCreateRequest">
    <xs:complexType>
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      <xs:sequence>
        <xs:element
xmlns:q168="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q168:BusinessRules" />
        <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BusinessRulesCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q169="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q169:BusinessRules" />
        <xs:element
xmlns:q170="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q170:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BusinessRulesDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q171="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="DeleteCriteria" nillable="true" type="q171:BRDeleteCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="BRDeleteCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q172="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q172:DataContractBase">
        <xs:sequence>
          <xs:element xmlns:q173="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BRConditionTreeNodes" nillable="true" type="q173:ArrayOfguid">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element xmlns:q174="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BRItems" nillable="true" type="q174:ArrayOfguid">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element xmlns:q175="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BusinessRules" nillable="true" type="q175:ArrayOfguid">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q176="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRDeleteCriteria" nillable="true" type="q176:BRDeleteCriteria" />
  <xs:element name="BusinessRulesGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q177="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="GetCriteria" nillable="true" type="q177:BRGetCriteria" />
        <xs:element
xmlns:q178="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ResultOptions" nillable="true" type="q178:BRResultOptions" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="BRGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q179="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q179:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q179:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BusinessRuleIds" nillable="true"
type="q179:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q179:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberType" type="q179:BREntityMemberType" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q179:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
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          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q180="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRGetCriteria" nillable="true" type="q180:BRGetCriteria" />
  <xs:complexType name="BRResultOptions">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q181="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q181:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BRActions" type="q181:ResultType" />
          <xs:element minOccurs="0" name="BRConditionTreeNodes" type="q181:ResultType" />
          <xs:element minOccurs="0" name="BRConditions" type="q181:ResultType" />
          <xs:element minOccurs="0" name="BusinessRules" type="q181:ResultType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q182="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRResultOptions" nillable="true" type="q182:BRResultOptions" />
  <xs:element name="BusinessRulesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q183="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q183:BusinessRules" />
        <xs:element
xmlns:q184="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q184:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BusinessRulesPublishRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q185="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BRPublishCriteria" nillable="true" type="q185:BRPublishCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="BRPublishCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q186="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q186:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q186:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberType" type="q186:BREntityMemberType" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q186:Identifier">
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            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q187="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="BRPublishCriteria" nillable="true" type="q187:BRPublishCriteria" />
  <xs:element name="BusinessRulesUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q188="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BusinessRuleSet" nillable="true" type="q188:BusinessRules" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataCloneRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q189="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Metadata" nillable="true" type="q189:Metadata" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="Metadata">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q190="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q190:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="q190:ArrayOfAttributeGroup">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q190:ArrayOfMetadataAttribute">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="q190:ArrayOfDerivedHierarchy">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DerivedHierarchyLevels" nillable="true"
type="q190:ArrayOfDerivedHierarchyLevel">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Entities" nillable="true"
type="q190:ArrayOfEntity">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="q190:ArrayOfExplicitHierarchy">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberTypes" nillable="true"
type="q190:ArrayOfEntityMemberType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Models" nillable="true" type="q190:ArrayOfModel">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="q190:ArrayOfVersionFlag">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" nillable="true"
type="q190:ArrayOfVersion">
```



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            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q191="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Metadata" nillable="true" type="q191:Metadata" />
  <xs:complexType name="ArrayOfAttributeGroup">
    <xs:sequence>
      <xs:element
xmlns:q192="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="AttributeGroup" nillable="true" type="q192:AttributeGroup" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q193="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfAttributeGroup" nillable="true" type="q193:ArrayOfAttributeGroup" />
  <xs:complexType name="AttributeGroup">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q194="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q194:MdmDataContractOfMemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q194:ArrayOfMetadataAttribute">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="FullName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="IsNameCodeFrozen" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SortOrder" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q195="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="AttributeGroup" nillable="true" type="q195:AttributeGroup" />
  <xs:complexType name="MdmDataContractOfMemberTypeContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="MemberTypeContextIdentifier"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q196="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q196:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q196:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true"
type="q196:MemberTypeContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q196:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q197="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MdmDataContractOfMemberTypeContextIdentifier" nillable="true"
type="q197:MdmDataContractOfMemberTypeContextIdentifier" />
  <xs:simpleType name="PermissionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified">
        <xs:annotation>
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          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DenyAccess">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Update">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ReadOnly">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Delete">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Execute">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Control">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q198="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="PermissionType" nillable="true" type="q198:PermissionType" />
  <xs:complexType name="ArrayOfMetadataAttribute">
    <xs:sequence>
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      <xs:element
xmlns:q199="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MetadataAttribute" nillable="true" type="q199:MetadataAttribute"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q200="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMetadataAttribute" nillable="true" type="q200:ArrayOfMetadataAttribute" />
  <xs:complexType name="MetadataAttribute">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q201="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q201:MdmDataContractOfMemberTypeContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeType" nillable="true"
type="q201:AttributeType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ChangeTrackingGroup" type="xs:int" />
          <xs:element minOccurs="0" name="DataType" type="q201:AttributeDataType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DataTypeInformation" nillable="true" type="xs:int"
/>
          <xs:element minOccurs="0" name="DisplayWidth" type="xs:int" />
          <xs:element minOccurs="0" name="DomainEntityId" nillable="true"
type="q201:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DomainEntityIsFlat" type="xs:boolean" />
          <xs:element minOccurs="0" name="DomainEntityPermission" type="q201:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="InputMaskId" nillable="true"
type="q201:Identifier">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsCode" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsName" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsReadOnly" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q202="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MetadataAttribute" nillable="true" type="q202:MetadataAttribute" />
  <xs:complexType name="ArrayOfDerivedHierarchy">
    <xs:sequence>
      <xs:element
xmlns:q203="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="DerivedHierarchy" nillable="true" type="q203:DerivedHierarchy" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q204="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfDerivedHierarchy" nillable="true" type="q204:ArrayOfDerivedHierarchy" />
  <xs:complexType name="DerivedHierarchy">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q205="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q205:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AnchorNullRecursions" type="xs:boolean" />
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="IsRecursive" type="xs:boolean" />
          <xs:element minOccurs="0" name="Levels" nillable="true"
type="q205:ArrayOfDerivedHierarchyLevel">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q206="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DerivedHierarchy" nillable="true" type="q206:DerivedHierarchy" />
  <xs:complexType name="MdmDataContractOfModelContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="ModelContextIdentifier"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
        </GenericType>
      </xs:appinfo>
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```
    </xs:annotation>
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q207="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q207:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q207:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true"
type="q207:ModelContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q207:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q208="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MdmDataContractOfModelContextIdentifier" nillable="true"
type="q208:MdmDataContractOfModelContextIdentifier" />
  <xs:complexType name="ArrayOfDerivedHierarchyLevel">
    <xs:sequence>
      <xs:element
xmlns:q209="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="DerivedHierarchyLevel" nillable="true"
type="q209:DerivedHierarchyLevel" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q210="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfDerivedHierarchyLevel" nillable="true" type="q210:ArrayOfDerivedHierarchyLevel"
/>
  <xs:complexType name="DerivedHierarchyLevel">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q211="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q211:MdmDataContractOfDerivedHierarchyContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ForeignEntityId" nillable="true"
type="q211:Identifier">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ForeignId" nillable="true" type="q211:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ForeignType" type="q211:HierarchyItemType" />
          <xs:element minOccurs="0" name="IsRecursive" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsVisible" type="xs:boolean" />
          <xs:element minOccurs="0" name="LevelNumber" type="xs:int" />
          <xs:element minOccurs="0" name="MemberType" type="q211:MemberType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q212="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DerivedHierarchyLevel" nillable="true" type="q212:DerivedHierarchyLevel" />
  <xs:complexType name="MdmDataContractOfDerivedHierarchyContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="DerivedHierarchyContextIdentifier"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q213="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q213:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q213:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true"
type="q213:DerivedHierarchyContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q213:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q214="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MdmDataContractOfDerivedHierarchyContextIdentifier" nillable="true"
type="q214:MdmDataContractOfDerivedHierarchyContextIdentifier" />
  <xs:simpleType name="HierarchyItemType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Entity" />
      <xs:enumeration value="DBA" />
      <xs:enumeration value="Hierarchy" />
      <xs:enumeration value="ConsolidatedDBA" />
      <xs:enumeration value="NotApplicable" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q215="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyItemType" nillable="true" type="q215:HierarchyItemType" />
  <xs:complexType name="ArrayOfEntity">
    <xs:sequence>
      <xs:element
xmlns:q216="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Entity" nillable="true" type="q216:Entity" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q217="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfEntity" nillable="true" type="q217:ArrayOfEntity" />
  <xs:complexType name="Entity">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q218="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q218:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="q218:ArrayOfExplicitHierarchy">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsBase" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsFlat" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="MemberTypes" nillable="true"
type="q218:ArrayOfEntityMemberType">
```



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```
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="StagingName" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q219="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Entity" nillable="true" type="q219:Entity" />
  <xs:complexType name="ArrayOfExplicitHierarchy">
    <xs:sequence>
      <xs:element
xmlns:q220="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ExplicitHierarchy" nillable="true" type="q220:ExplicitHierarchy"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q221="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfExplicitHierarchy" nillable="true" type="q221:ArrayOfExplicitHierarchy" />
  <xs:complexType name="ExplicitHierarchy">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q222="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q222:MdmDataContractOfEntityContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="FullyQualifiedName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="IsMandatory" type="xs:boolean" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q223="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ExplicitHierarchy" nillable="true" type="q223:ExplicitHierarchy" />
  <xs:complexType name="MdmDataContractOfEntityContextIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="EntityContextIdentifier"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q224="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q224:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q224:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
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```
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true"
type="q224:EntityContextIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q224:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q225="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MdmDataContractOfEntityContextIdentifier" nillable="true"
type="q225:MdmDataContractOfEntityContextIdentifier" />
  <xs:complexType name="ArrayOfEntityMemberType">
    <xs:sequence>
      <xs:element
xmlns:q226="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="EntityMemberType" nillable="true" type="q226:EntityMemberType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q227="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfEntityMemberType" nillable="true" type="q227:ArrayOfEntityMemberType" />
  <xs:complexType name="EntityMemberType">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q228="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q228:MdmDataContractOfIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="q228:ArrayOfAttributeGroup">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q228:ArrayOfMetadataAttribute">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
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          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q228:Identifier" />
          <xs:element minOccurs="0" name="Type" type="q228:MemberType" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q229="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityMemberType" nillable="true" type="q229:EntityMemberType" />
  <xs:complexType name="MdmDataContractOfIdentifier">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="MdmDataContractOf{0}"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="Identifier"
Namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q230="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q230:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q230:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q230:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Permission" type="q230:PermissionType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q231="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MdmDataContractOfIdentifier" nillable="true" type="q231:MdmDataContractOfIdentifier" />
  <xs:complexType name="ArrayOfModel">
    <xs:sequence>
      <xs:element
xmlns:q232="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Model" nillable="true" type="q232:Model" />
    </xs:sequence>
```



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  </xs:complexType>
  <xs:element xmlns:q233="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfModel" nillable="true" type="q233:ArrayOfModel" />
  <xs:complexType name="Model">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q234="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q234:MdmDataContractOfIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="q234:ArrayOfDerivedHierarchy">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Entities" nillable="true"
type="q234:ArrayOfEntity">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="q234:ArrayOfExplicitHierarchy">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsAdministrator" type="xs:boolean" />
          <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
          <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="q234:ArrayOfVersionFlag">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" nillable="true"
type="q234:ArrayOfVersion">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
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  <xs:element xmlns:q235="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Model" nillable="true" type="q235:Model" />
  <xs:complexType name="ArrayOfVersionFlag">
    <xs:sequence>
      <xs:element
xmlns:q236="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="VersionFlag" nillable="true" type="q236:VersionFlag" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q237="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfVersionFlag" nillable="true" type="q237:ArrayOfVersionFlag" />
  <xs:complexType name="VersionFlag">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q238="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q238:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="AssignedVersionId" nillable="true"
type="q238:Identifier" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="IsCommittedOnly" type="xs:boolean" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q239="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="VersionFlag" nillable="true" type="q239:VersionFlag" />
  <xs:complexType name="ArrayOfVersion">
    <xs:sequence>
      <xs:element
xmlns:q240="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Version" nillable="true" type="q240:Version" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q241="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfVersion" nillable="true" type="q241:ArrayOfVersion" />
  <xs:complexType name="Version">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q242="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q242:MdmDataContractOfModelContextIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="CopiedFromVersionId" nillable="true"
type="q242:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ValidationStatus"
type="q242:VersionValidationStatus" />
          <xs:element minOccurs="0" name="VersionFlagId" nillable="true"
type="q242:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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```
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionNumber" type="xs:int" />
          <xs:element minOccurs="0" name="VersionStatus" type="q242:VersionStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q243="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Version" nillable="true" type="q243:Version" />
  <xs:simpleType name="VersionValidationStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="NotValidated" />
      <xs:enumeration value="Validated" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q244="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="VersionValidationStatus" nillable="true" type="q244:VersionValidationStatus" />
  <xs:simpleType name="VersionStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Open" />
      <xs:enumeration value="Locked" />
      <xs:enumeration value="Committed" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q245="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="VersionStatus" nillable="true" type="q245:VersionStatus" />
  <xs:element name="MetadataCloneResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q246="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q246:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q247="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Metadata" nillable="true" type="q247:Metadata" />
        <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q248="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MetadataCreated" nillable="true" type="q248:Metadata" />
        <xs:element
xmlns:q249="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q249:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
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```
  <xs:element name="MetadataDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q250="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Metadata" nillable="true" type="q250:Metadata" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q251="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q251:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q252="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ResultOptions" nillable="true" type="q252:MetadataResultOptions" />
        <xs:element
xmlns:q253="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SearchCriteria" nillable="true" type="q253:MetadataSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="MetadataResultOptions">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q254="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q254:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeGroups" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DerivedHierarchies" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
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          <xs:element minOccurs="0" name="DerivedHierarchyLevels" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Entities" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchies" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberTypes" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Models" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionFlags" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" type="q254:ResultType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
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```
  </xs:complexType>
  <xs:element xmlns:q255="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MetadataResultOptions" nillable="true" type="q255:MetadataResultOptions" />
  <xs:complexType name="MetadataSearchCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q256="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q256:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeGroups" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DerivedHierarchies" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DerivedHierarchyLevels" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Entities" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchies" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
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              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberTypes" nillable="true"
type="q256:ArrayOfMemberType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Models" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SearchOption" type="q256:SearchOption">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionFlags" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" nillable="true"
type="q256:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q257="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MetadataSearchCriteria" nillable="true" type="q257:MetadataSearchCriteria" />
  <xs:complexType name="ArrayOfMemberType">
    <xs:sequence>
      <xs:element
xmlns:q258="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MemberType" type="q258:MemberType" />
    </xs:sequence>
  </xs:complexType>
```



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```
  <xs:element xmlns:q259="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMemberType" nillable="true" type="q259:ArrayOfMemberType" />
  <xs:simpleType name="SearchOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="UserDefinedObjectsOnly" />
      <xs:enumeration value="SystemObjectsOnly" />
      <xs:enumeration value="BothUserDefinedAndSystemObjects" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q260="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SearchOption" nillable="true" type="q260:SearchOption" />
  <xs:element name="MetadataGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q261="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Metadata" nillable="true" type="q261:Metadata" />
        <xs:element
xmlns:q262="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q262:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q263="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Metadata" nillable="true" type="q263:Metadata" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q264="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q264:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="StagingNameCheckRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="StagingName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="StagingNameCheckResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsUnique" type="xs:boolean" />
        <xs:element
xmlns:q265="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q265:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SystemSettingsGetRequest">
    <xs:complexType>
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```
      <xs:sequence>
        <xs:element
xmlns:q266="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SearchCriteria" nillable="true" type="q266:SystemSettingsGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SystemSettingsGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q267="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q267:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Group" nillable="true" type="q267:Identifier" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q268="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemSettingsGetCriteria" nillable="true" type="q268:SystemSettingsGetCriteria" />
  <xs:element name="SystemSettingsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q269="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q269:OperationResult" />
        <xs:element
xmlns:q270="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SystemSettingsGroups" nillable="true" type="q270:ArrayOfSystemSettingGroup" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfSystemSettingGroup">
    <xs:sequence>
      <xs:element
xmlns:q271="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemSettingGroup" nillable="true"
type="q271:SystemSettingGroup" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q272="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfSystemSettingGroup" nillable="true" type="q272:ArrayOfSystemSettingGroup" />
  <xs:complexType name="SystemSettingGroup">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q273="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q273:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="DisplaySequence" type="xs:int" />
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q273:Identifier"
/>
          <xs:element minOccurs="0" name="SystemSettings" nillable="true"
type="q273:ArrayOfSystemSetting" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q274="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemSettingGroup" nillable="true" type="q274:SystemSettingGroup" />
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  <xs:complexType name="ArrayOfSystemSetting">
    <xs:sequence>
      <xs:element
xmlns:q275="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemSetting" nillable="true" type="q275:SystemSetting" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q276="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfSystemSetting" nillable="true" type="q276:ArrayOfSystemSetting" />
  <xs:complexType name="SystemSetting">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q277="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q277:MdmDataContractOfIdentifier">
        <xs:sequence>
          <xs:element minOccurs="0" name="DataType" type="q277:AttributeDataType" />
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="DisplaySequence" type="xs:int" />
          <xs:element minOccurs="0" name="IsVisible" type="xs:boolean" />
          <xs:element minOccurs="0" name="MaxValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="MinValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SettingType" type="q277:AttributeType" />
          <xs:element minOccurs="0" name="SettingValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SystemDomainList" nillable="true"
type="q277:SystemDomainList" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q278="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemSetting" nillable="true" type="q278:SystemSetting" />
  <xs:complexType name="SystemDomainList">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q279="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q279:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Code" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Items" nillable="true"
type="q279:ArrayOfSystemDomainListItem" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q280="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemDomainList" nillable="true" type="q280:SystemDomainList" />
  <xs:complexType name="ArrayOfSystemDomainListItem">
    <xs:sequence>
      <xs:element
xmlns:q281="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemDomainListItem" nillable="true"
type="q281:SystemDomainListItem" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q282="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfSystemDomainListItem" nillable="true" type="q282:ArrayOfSystemDomainListItem" />
  <xs:complexType name="SystemDomainListItem">
    <xs:complexContent mixed="false">
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      <xs:extension
xmlns:q283="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q283:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ListGroup" type="xs:int" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q284="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemDomainListItem" nillable="true" type="q284:SystemDomainListItem" />
  <xs:element name="SystemSettingsUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q285="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SystemSettingGroups" nillable="true" type="q285:ArrayOfSystemSettingGroup" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SystemSettingsUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q286="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q286:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SystemDomainListGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q287="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SearchCriteria" nillable="true" type="q287:SystemDomainListGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SystemDomainListGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q288="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q288:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ListCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="ListGroup" nillable="true" type="xs:int" />
          <xs:element minOccurs="0" name="ListOption" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q289="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemDomainListGetCriteria" nillable="true" type="q289:SystemDomainListGetCriteria" />
  <xs:element name="SystemDomainListGetResponse">
    <xs:complexType>
      <xs:sequence>
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        <xs:element
xmlns:q290="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q290:OperationResult" />
        <xs:element
xmlns:q291="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SystemDomainLists" nillable="true" type="q291:ArrayOfSystemDomainList" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfSystemDomainList">
    <xs:sequence>
      <xs:element
xmlns:q292="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemDomainList" nillable="true" type="q292:SystemDomainList" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q293="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfSystemDomainList" nillable="true" type="q293:ArrayOfSystemDomainList" />
  <xs:element name="SystemPropertiesGetRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="SystemPropertiesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q294="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q294:OperationResult" />
        <xs:element
xmlns:q295="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SystemProperties" nillable="true" type="q295:ArrayOfSystemPropertyValue" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfSystemPropertyValue">
    <xs:sequence>
      <xs:element
xmlns:q296="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="SystemPropertyValue" nillable="true"
type="q296:SystemPropertyValue" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q297="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfSystemPropertyValue" nillable="true" type="q297:ArrayOfSystemPropertyValue" />
  <xs:complexType name="SystemPropertyValue">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q298="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q298:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="SystemPropertyType" type="q298:SystemPropertyType"
/>
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q299="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemPropertyValue" nillable="true" type="q299:SystemPropertyValue" />
  <xs:simpleType name="SystemPropertyType">
```



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```
    <xs:restriction base="xs:string">
      <xs:enumeration value="DatabaseSchemaVersion" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q300="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SystemPropertyType" nillable="true" type="q300:SystemPropertyType" />
  <xs:element name="ServiceCheckGetRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="ServiceVersionGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q301="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q301:OperationResult" />
        <xs:element xmlns:q302="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="Version" nillable="true" type="q302:Version" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="VersionCopyRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" name="FromVersionId" type="ser:guid" />
        <xs:element minOccurs="1" name="ToVersionDescription" nillable="true"
type="xs:string" />
        <xs:element minOccurs="1" name="ToVersionName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="VersionCopyResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q303="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q303:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesGetRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q304="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q304:OperationResult" />
        <xs:element xmlns:q305="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q305:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesUpdateRequest">
    <xs:complexType>
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```
      <xs:sequence>
        <xs:element xmlns:q306="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q306:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q307="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q307:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="DeleteAllUserPreferences" type="xs:boolean" />
        <xs:element xmlns:q308="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="UserPreferences" nillable="true"
type="q308:ArrayOfKeyValueOfstringstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserPreferencesDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q309="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q309:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityInstalledStateRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityInstalledStateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsInstalled" type="xs:boolean" />
        <xs:element
xmlns:q310="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q310:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityKnowledgeBasesGetRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityKnowledgeBasesGetResponse">
    <xs:complexType>
      <xs:sequence>
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        <xs:element
xmlns:q311="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="KnowledgeBases" nillable="true" type="q311:ArrayOfKnowledgebase" />
        <xs:element
xmlns:q312="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q312:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfKnowledgebase">
    <xs:sequence>
      <xs:element
xmlns:q313="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Knowledgebase" nillable="true" type="q313:Knowledgebase" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q314="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfKnowledgebase" nillable="true" type="q314:ArrayOfKnowledgebase" />
  <xs:complexType name="Knowledgebase">
    <xs:sequence>
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element
xmlns:q315="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Domains" nillable="true" type="q315:ArrayOfDataQualityDomain" />
      <xs:element minOccurs="0" name="Id" type="xs:long" />
      <xs:element minOccurs="0" name="IsDefaultKnowledgeBase" type="xs:boolean" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q316="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Knowledgebase" nillable="true" type="q316:Knowledgebase" />
  <xs:complexType name="ArrayOfDataQualityDomain">
    <xs:sequence>
      <xs:element
xmlns:q317="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="DataQualityDomain" nillable="true" type="q317:DataQualityDomain"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q318="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfDataQualityDomain" nillable="true" type="q318:ArrayOfDataQualityDomain" />
  <xs:complexType name="DataQualityDomain">
    <xs:sequence>
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element
xmlns:q319="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="DomainType" type="q319:DomainType" />
      <xs:element minOccurs="0" name="Id" type="xs:long" />
      <xs:element minOccurs="0" name="IsDefault" type="xs:boolean" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q320="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DataQualityDomain" nillable="true" type="q320:DataQualityDomain" />
  <xs:simpleType name="DomainType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="String" />
      <xs:enumeration value="Date" />
      <xs:enumeration value="Integer" />
      <xs:enumeration value="Decimal" />
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    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q321="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DomainType" nillable="true" type="q321:DomainType" />
  <xs:element name="DataQualityCleansingOperationStartRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q322="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ColumnMappings" nillable="true" type="q322:ArrayOfColumnMapping" />
        <xs:element
xmlns:q323="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Data" nillable="true" type="q323:TabularData" />
        <xs:element minOccurs="0" name="KnowledgebaseId" type="xs:long" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfColumnMapping">
    <xs:sequence>
      <xs:element
xmlns:q324="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ColumnMapping" nillable="true" type="q324:ColumnMapping" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q325="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfColumnMapping" nillable="true" type="q325:ArrayOfColumnMapping" />
  <xs:complexType name="ColumnMapping">
    <xs:sequence>
      <xs:element minOccurs="0" name="DomainId" type="xs:long" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q326="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ColumnMapping" nillable="true" type="q326:ColumnMapping" />
  <xs:complexType name="TabularData">
    <xs:sequence>
      <xs:element
xmlns:q327="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ColumnDefinitions" nillable="true" type="q327:ArrayOfTabularColumnDefinition" />
      <xs:element
xmlns:q328="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Rows" nillable="true" type="q328:ArrayOfTabularDataRow" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q329="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="TabularData" nillable="true" type="q329:TabularData" />
  <xs:complexType name="ArrayOfTabularColumnDefinition">
    <xs:sequence>
      <xs:element
xmlns:q330="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="TabularColumnDefinition" nillable="true"
type="q330:TabularColumnDefinition" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q331="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfTabularColumnDefinition" nillable="true"
type="q331:ArrayOfTabularColumnDefinition" />
  <xs:complexType name="TabularColumnDefinition">
    <xs:sequence>
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      <xs:element
xmlns:q332="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="DomainType" type="q332:DomainType" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q333="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="TabularColumnDefinition" nillable="true" type="q333:TabularColumnDefinition" />
  <xs:complexType name="ArrayOfTabularDataRow">
    <xs:sequence>
      <xs:element
xmlns:q334="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="TabularDataRow" nillable="true" type="q334:TabularDataRow" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q335="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfTabularDataRow" nillable="true" type="q335:ArrayOfTabularDataRow" />
  <xs:complexType name="TabularDataRow">
    <xs:sequence>
      <xs:element xmlns:q336="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Values" nillable="true" type="q336:ArrayOfanyType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q337="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="TabularDataRow" nillable="true" type="q337:TabularDataRow" />
  <xs:element name="DataQualityOperationStartResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="OperationId" type="ser:guid" />
        <xs:element
xmlns:q338="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q338:OperationResult" />
        <xs:element
xmlns:q339="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Status" type="q339:OperationStatus" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="OperationStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Invalid" />
      <xs:enumeration value="Pending" />
      <xs:enumeration value="InProgress" />
      <xs:enumeration value="Success" />
      <xs:enumeration value="Failure" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q340="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="OperationStatus" nillable="true" type="q340:OperationStatus" />
  <xs:element name="DataQualityMatchingOperationStartRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q341="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ColumnMappings" nillable="true" type="q341:ArrayOfColumnMapping" />
        <xs:element
xmlns:q342="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Data" nillable="true" type="q342:TabularData" />
        <xs:element minOccurs="0" name="KnowledgebaseId" type="xs:long" />
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        <xs:element
xmlns:q343="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MatchingPolicy" nillable="true" type="q343:MatchingPolicy" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="MatchingPolicy">
    <xs:sequence>
      <xs:element
xmlns:q344="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Rules" nillable="true" type="q344:ArrayOfMatchingRule" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q345="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MatchingPolicy" nillable="true" type="q345:MatchingPolicy" />
  <xs:complexType name="ArrayOfMatchingRule">
    <xs:sequence>
      <xs:element
xmlns:q346="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MatchingRule" nillable="true" type="q346:MatchingRule" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q347="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMatchingRule" nillable="true" type="q347:ArrayOfMatchingRule" />
  <xs:complexType name="MatchingRule">
    <xs:sequence>
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element
xmlns:q348="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MatchingCriteria" nillable="true" type="q348:ArrayOfMatchingCriterion" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Threshold" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q349="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MatchingRule" nillable="true" type="q349:MatchingRule" />
  <xs:complexType name="ArrayOfMatchingCriterion">
    <xs:sequence>
      <xs:element
xmlns:q350="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MatchingCriterion" nillable="true" type="q350:MatchingCriterion"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q351="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMatchingCriterion" nillable="true" type="q351:ArrayOfMatchingCriterion" />
  <xs:complexType name="MatchingCriterion">
    <xs:sequence>
      <xs:element
xmlns:q352="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="CriterionType" type="q352:MatchingCriterionType" />
      <xs:element minOccurs="0" name="FieldName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="IsPrerequisite" type="xs:boolean" />
      <xs:element minOccurs="0" name="Weight" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q353="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MatchingCriterion" nillable="true" type="q353:MatchingCriterion" />
  <xs:simpleType name="MatchingCriterionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Exact" />
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      <xs:enumeration value="Similar" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q354="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MatchingCriterionType" nillable="true" type="q354:MatchingCriterionType" />
  <xs:element name="DataQualityOperationStatusRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="OperationId" type="ser:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityOperationStatusResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q355="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q355:OperationResult" />
        <xs:element
xmlns:q356="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Status" type="q356:OperationStatus" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityOperationResultsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="OperationId" type="ser:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DataQualityOperationResultsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q357="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Data" nillable="true" type="q357:TabularData" />
        <xs:element
xmlns:q358="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q358:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q359="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MembersGetCriteria" nillable="true" type="q359:EntityMembersGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="EntityMembersGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q360="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q360:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeGroupId" nillable="true"
type="q360:Identifier">
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            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q360:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DisplayType" nillable="true"
type="q360:DisplayType" />
          <xs:element name="EntityId" nillable="true" type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyType" type="q360:HierarchyType" />
          <xs:element name="MemberReturnOption" type="q360:MemberReturnOption" />
          <xs:element name="MemberType" nillable="true" type="q360:MemberType" />
          <xs:element name="ModelId" nillable="true" type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="PageNumber" type="xs:int" />
          <xs:element name="PageSize" nillable="true" type="xs:int" />
          <xs:element minOccurs="0" name="ParentEntityId" nillable="true"
type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentMember" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SearchTerm" nillable="true" type="xs:string" />
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```
          <xs:element minOccurs="0" name="SortColumnId" nillable="true"
type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SortDirection" type="q360:SortDirection" />
          <xs:element name="VersionId" nillable="true" type="q360:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q361="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityMembersGetCriteria" nillable="true" type="q361:EntityMembersGetCriteria" />
  <xs:simpleType name="DisplayType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Code" />
      <xs:enumeration value="CodeName" />
      <xs:enumeration value="NameCode" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q362="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="DisplayType" nillable="true" type="q362:DisplayType" />
  <xs:simpleType name="MemberReturnOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Data" />
      <xs:enumeration value="Counts" />
      <xs:enumeration value="DataAndCounts" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q363="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberReturnOption" nillable="true" type="q363:MemberReturnOption" />
  <xs:simpleType name="SortDirection">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Asc" />
      <xs:enumeration value="Desc" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q364="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SortDirection" nillable="true" type="q364:SortDirection" />
  <xs:element name="EntityMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q365="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityMembers" nillable="true" type="q365:EntityMembers" />
        <xs:element
xmlns:q366="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityMembersInformation" nillable="true" type="q366:EntityMembersInformation" />
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        <xs:element
xmlns:q367="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q367:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="EntityMembers">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q368="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q368:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q368:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberType" nillable="true" type="q368:MemberType"
/>
          <xs:element minOccurs="0" name="Members" nillable="true" type="q368:ArrayOfMember">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q368:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q368:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q369="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityMembers" nillable="true" type="q369:EntityMembers" />
  <xs:complexType name="ArrayOfMember">
    <xs:sequence>
      <xs:element
xmlns:q370="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Member" nillable="true" type="q370:Member" />
    </xs:sequence>
  </xs:complexType>
```



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```
  <xs:element xmlns:q371="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMember" nillable="true" type="q371:ArrayOfMember" />
  <xs:complexType name="Member">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q372="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q372:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Attributes" nillable="true"
type="q372:ArrayOfAttribute">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q372:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Collections" nillable="true"
type="q372:ArrayOfCollection">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q372:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Parents" nillable="true" type="q372:ArrayOfParent">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SecurityPermission" nillable="true"
type="q372:SecurityPermission" />
          <xs:element minOccurs="0" name="ValidationStatus" type="q372:ValidationStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q373="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Member" nillable="true" type="q373:Member" />
```



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```
  <xs:complexType name="ArrayOfAttribute">
    <xs:sequence>
      <xs:element
xmlns:q374="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Attribute" nillable="true" type="q374:Attribute" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q375="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfAttribute" nillable="true" type="q375:ArrayOfAttribute" />
  <xs:complexType name="Attribute">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q376="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q376:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q376:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Type" type="q376:AttributeValueType" />
          <xs:element minOccurs="0" name="Value" nillable="true" type="xs:anyType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q377="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Attribute" nillable="true" type="q377:Attribute" />
  <xs:simpleType name="AttributeValueType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="String" />
      <xs:enumeration value="Number" />
      <xs:enumeration value="DateTime" />
      <xs:enumeration value="Domain" />
      <xs:enumeration value="File" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q378="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="AttributeValueType" nillable="true" type="q378:AttributeValueType" />
  <xs:complexType name="FileAttribute">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q379="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q379:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Content" nillable="true" type="xs:base64Binary" />
          <xs:element minOccurs="0" name="ContentType" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        </xs:sequence>
```



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```
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q380="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="FileAttribute" nillable="true" type="q380:FileAttribute" />
  <xs:complexType name="ArrayOfCollection">
    <xs:sequence>
      <xs:element
xmlns:q381="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Collection" nillable="true" type="q381:Collection" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q382="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfCollection" nillable="true" type="q382:ArrayOfCollection" />
  <xs:complexType name="Collection">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q383="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q383:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="CollectionId" nillable="true"
type="q383:MemberIdentifier" />
          <xs:element minOccurs="0" name="Remove" type="xs:boolean" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q384="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Collection" nillable="true" type="q384:Collection" />
  <xs:complexType name="ArrayOfParent">
    <xs:sequence>
      <xs:element
xmlns:q385="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Parent" nillable="true" type="q385:Parent" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q386="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfParent" nillable="true" type="q386:ArrayOfParent" />
  <xs:complexType name="Parent">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q387="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q387:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="HierarchyId" nillable="true" type="q387:Identifier"
/>
          <xs:element minOccurs="0" name="ParentId" nillable="true"
type="q387:MemberIdentifier" />
          <xs:element minOccurs="0" name="RelationshipType" nillable="true"
type="q387:RelationshipType" />
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q388="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Parent" nillable="true" type="q388:Parent" />
  <xs:simpleType name="RelationshipType">
    <xs:restriction base="xs:string">
```



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```
      <xs:enumeration value="All" />
      <xs:enumeration value="Parent" />
      <xs:enumeration value="Sibling" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q389="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="RelationshipType" nillable="true" type="q389:RelationshipType" />
  <xs:simpleType name="SecurityPermission">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="Deny" />
      <xs:enumeration value="Read">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Update">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Inferred">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q390="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="SecurityPermission" nillable="true" type="q390:SecurityPermission" />
  <xs:simpleType name="ValidationStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NewAwaitingValidation" />
      <xs:enumeration value="ValidationFailed" />
      <xs:enumeration value="ValidationSucceeded" />
      <xs:enumeration value="AwaitingRevalidation" />
      <xs:enumeration value="AwaitingDependentMemberRevalidation" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q391="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationStatus" nillable="true" type="q391:ValidationStatus" />
  <xs:complexType name="EntityMembersInformation">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q392="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q392:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
          <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
          <xs:element minOccurs="0" name="TotalMemberCount" type="xs:int" />
          <xs:element minOccurs="0" name="TotalPages" type="xs:int" />
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```
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q393="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityMembersInformation" nillable="true" type="q393:EntityMembersInformation" />
  <xs:element name="EntityMemberAttributesGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q394="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityMembers" nillable="true" type="q394:EntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMemberAttributesGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q395="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityMembers" nillable="true" type="q395:EntityMembers" />
        <xs:element
xmlns:q396="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q396:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="HierarchyMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q397="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="HierarchyMembersGetCriteria" nillable="true" type="q397:HierarchyMembersGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="HierarchyMembersGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q398="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q398:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Ancestors" type="xs:boolean" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q398:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyType" type="q398:HierarchyType" />
          <xs:element minOccurs="0" name="MemberType" type="xs:int" />
          <xs:element minOccurs="0" name="ParentEntityId" nillable="true"
type="q398:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
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              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentMember" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="RowLimit" type="xs:int" />
          <xs:element minOccurs="0" name="SearchTerm" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="UserId" nillable="true" type="q398:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="ModelId" nillable="true" type="q398:Identifier" />
          <xs:element name="VersionId" nillable="true" type="q398:Identifier" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q399="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyMembersGetCriteria" nillable="true" type="q399:HierarchyMembersGetCriteria" />
  <xs:element name="HierarchyMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q400="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="HierarchyMembers" nillable="true" type="q400:HierarchyMembers" />
        <xs:element
xmlns:q401="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q401:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="HierarchyMembers">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q402="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q402:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q402:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q402:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyType" type="q402:HierarchyType" />
          <xs:element minOccurs="0" name="Members" nillable="true"
type="q402:ArrayOfParentChild">
```



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```
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="ModelId" nillable="true" type="q402:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="VersionId" nillable="true" type="q402:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q403="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="HierarchyMembers" nillable="true" type="q403:HierarchyMembers" />
  <xs:complexType name="ArrayOfParentChild">
    <xs:sequence>
      <xs:element
xmlns:q404="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ParentChild" nillable="true" type="q404:ParentChild" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q405="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfParentChild" nillable="true" type="q405:ArrayOfParentChild" />
  <xs:complexType name="ParentChild">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q406="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q406:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q406:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
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```
          </xs:element>
          <xs:element minOccurs="0" name="Child" nillable="true"
type="q406:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ChildEntityId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ChildPermission" type="q406:SecurityPermission" />
          <xs:element minOccurs="0" name="NextRelationshipId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="NextRelationshipType" type="q406:HierarchyItemType"
/>
          <xs:element minOccurs="0" name="Parent" nillable="true"
type="q406:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentEntityId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ParentPermission" type="q406:SecurityPermission" />
          <xs:element minOccurs="0" name="RelationshipId" nillable="true"
type="q406:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="RelationshipType" type="q406:HierarchyItemType" />
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```
          <xs:element minOccurs="0" name="SortOrder" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q407="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ParentChild" nillable="true" type="q407:ParentChild" />
  <xs:element name="ModelMembersGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q408="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelsGetCriteria" nillable="true" type="q408:ModelMembersGetCriteria" />
        <xs:element
xmlns:q409="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelsResultCriteria" nillable="true" type="q409:ModelMembersResultCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ModelMembersGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q410="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q410:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Entities" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Models" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Versions" nillable="true"
type="q410:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q411="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelMembersGetCriteria" nillable="true" type="q411:ModelMembersGetCriteria" />
  <xs:complexType name="ModelMembersResultCriteria">
    <xs:complexContent mixed="false">
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      <xs:extension
xmlns:q412="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q412:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="IncludeCollectionMembers" type="xs:boolean" />
          <xs:element minOccurs="0" name="IncludeConsolidatedMembers" type="xs:boolean" />
          <xs:element minOccurs="0" name="IncludeLeafMembers" type="xs:boolean" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q413="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ModelMembersResultCriteria" nillable="true" type="q413:ModelMembersResultCriteria" />
  <xs:element name="ModelMembersGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q414="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelMembers" nillable="true" type="q414:ArrayOfEntityMembers" />
        <xs:element
xmlns:q415="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q415:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfEntityMembers">
    <xs:sequence>
      <xs:element
xmlns:q416="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="EntityMembers" nillable="true" type="q416:EntityMembers" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q417="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfEntityMembers" nillable="true" type="q417:ArrayOfEntityMembers" />
  <xs:element name="EntityMembersCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q418="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Members" nillable="true" type="q418:EntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q590="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="CreatedMembers" nillable="true" type="q590:ArrayOfMemberIdentifier" />
        <xs:element
xmlns:q419="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q419:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q420="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Members" nillable="true" type="q420:EntityMembers" />
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```
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q421="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q421:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q422="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Members" nillable="true" type="q422:EntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q423="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q423:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersCopyRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q424="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityMembersCopyCriteria" nillable="true" type="q424:EntityMembersCopyCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="EntityMembersCopyCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q425="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q425:DataContractBase">
        <xs:sequence>
          <xs:element name="EntityId" nillable="true" type="q425:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Members" nillable="true"
type="q425:ArrayOfMemberSourceTarget">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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```
            </xs:annotation>
          </xs:element>
          <xs:element name="ModelId" nillable="true" type="q425:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element name="VersionId" nillable="true" type="q425:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q426="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityMembersCopyCriteria" nillable="true" type="q426:EntityMembersCopyCriteria" />
  <xs:complexType name="ArrayOfMemberSourceTarget">
    <xs:sequence>
      <xs:element
xmlns:q427="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MemberSourceTarget" nillable="true"
type="q427:MemberSourceTarget" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q428="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMemberSourceTarget" nillable="true" type="q428:ArrayOfMemberSourceTarget" />
  <xs:complexType name="MemberSourceTarget">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q429="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q429:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="SourceMemberCode" nillable="true" type="xs:string"
/>
          <xs:element minOccurs="0" name="TargetMemberCode" nillable="true" type="xs:string"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q430="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberSourceTarget" nillable="true" type="q430:MemberSourceTarget" />
  <xs:element name="EntityMembersCopyResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q431="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q431:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersMergeRequest">
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```
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q432="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Members" nillable="true" type="q432:EntityMembers" />
        <xs:element minOccurs="0" name="ReturnCreatedIdentifiers" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMembersMergeResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q591="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="CreatedMembers" nillable="true" type="q591:ArrayOfMemberIdentifier" />
        <xs:element
xmlns:q433="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q433:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityStagingLoadRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BatchTag" nillable="true" type="xs:string" />
        <xs:element
xmlns:q434="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ImportType" type="q434:EntityStagingImportType" />
        <xs:element
xmlns:q435="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelMembers" nillable="true" type="q435:ArrayOfEntityMembers" />
        <xs:element minOccurs="0" name="QueueForProcessing" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="EntityStagingImportType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="MergeOptimistic" />
      <xs:enumeration value="Insert" />
      <xs:enumeration value="MergeOverwrite" />
      <xs:enumeration value="Delete" />
      <xs:enumeration value="Purge" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q436="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityStagingImportType" nillable="true" type="q436:EntityStagingImportType" />
  <xs:element name="EntityStagingLoadResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q437="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q437:OperationResult" />
        <xs:element
xmlns:q438="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingBatches" nillable="true" type="q438:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityStagingGetRequest">
    <xs:complexType>
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      <xs:sequence>
        <xs:element
xmlns:q439="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="GetCriteria" nillable="true" type="q439:EntityStagingGetCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="EntityStagingGetCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q440="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q440:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="IncludeClearedBatches" type="xs:boolean" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q440:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PageNumber" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PageSize" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q441="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityStagingGetCriteria" nillable="true" type="q441:EntityStagingGetCriteria" />
  <xs:element name="EntityStagingGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BatchCount" type="xs:int" />
        <xs:element
xmlns:q442="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Batches" nillable="true" type="q442:ArrayOfEntityStagingBatch" />
        <xs:element
xmlns:q443="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q443:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfEntityStagingBatch">
    <xs:sequence>
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      <xs:element
xmlns:q444="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="EntityStagingBatch" nillable="true"
type="q444:EntityStagingBatch" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q445="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfEntityStagingBatch" nillable="true" type="q445:ArrayOfEntityStagingBatch" />
  <xs:complexType name="EntityStagingBatch">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q446="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q446:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BatchId" nillable="true" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BatchTag" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q446:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ErrorView" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberType" type="q446:MemberType">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ProcessedEnd" type="xs:dateTime">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ProcessedStart" type="xs:dateTime">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="RowsInError" type="xs:int" />
          <xs:element minOccurs="0" name="Status" type="q446:StagingBatchStatus">
            <xs:annotation>
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              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q446:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q447="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="EntityStagingBatch" nillable="true" type="q447:EntityStagingBatch" />
  <xs:simpleType name="StagingBatchStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="All" />
      <xs:enumeration value="QueuedToRun" />
      <xs:enumeration value="NotRunning" />
      <xs:enumeration value="Running" />
      <xs:enumeration value="QueuedToClear" />
      <xs:enumeration value="Cleared" />
      <xs:enumeration value="AllExceptCleared" />
      <xs:enumeration value="Completed" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q448="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingBatchStatus" nillable="true" type="q448:StagingBatchStatus" />
  <xs:element name="EntityStagingClearRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BatchId" type="xs:int" />
        <xs:element
xmlns:q449="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelId" nillable="true" type="q449:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityStagingClearResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q450="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q450:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityStagingProcessRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BatchTag" nillable="true" type="xs:string" />
        <xs:element
xmlns:q451="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityId" nillable="true" type="q451:Identifier" />
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        <xs:element
xmlns:q452="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberType" type="q452:MemberType" />
        <xs:element
xmlns:q453="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="VersionId" nillable="true" type="q453:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityStagingProcessResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BatchId" type="xs:int" />
        <xs:element
xmlns:q454="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q454:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelMembersBulkDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q455="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelMembers" nillable="true" type="q455:ArrayOfEntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelMembersBulkDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q456="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q456:OperationResult" />
        <xs:element
xmlns:q457="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingBatches" nillable="true" type="q457:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelMembersBulkUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q458="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelMembers" nillable="true" type="q458:ArrayOfEntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelMembersBulkUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q459="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q459:OperationResult" />
        <xs:element
xmlns:q460="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingBatches" nillable="true" type="q460:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
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```
  <xs:element name="ModelMembersBulkMergeRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q461="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelMembers" nillable="true" type="q461:ArrayOfEntityMembers" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelMembersBulkMergeResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q462="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q462:OperationResult" />
        <xs:element
xmlns:q463="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingBatches" nillable="true" type="q463:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="StagingGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IncludeUnbatchedInformation" type="xs:boolean" />
        <xs:element
xmlns:q464="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingResultCriteria" nillable="true" type="q464:StagingResultCriteria" />
        <xs:element
xmlns:q465="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="StagingSearchCriteria" nillable="true" type="q465:StagingSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="StagingResultCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q466="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q466:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="All" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Attributes" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Members" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
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                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PageSize" nillable="true" type="xs:int">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Relationships" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q467="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingResultCriteria" nillable="true" type="q467:StagingResultCriteria" />
  <xs:complexType name="StagingSearchCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q468="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q468:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="StagingBatchStatus" type="q468:StagingBatchStatus">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="StagingBatches" nillable="true"
type="q468:ArrayOfIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="StagingDataStatus" type="q468:StagingDataStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q469="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingSearchCriteria" nillable="true" type="q469:StagingSearchCriteria" />
  <xs:simpleType name="StagingDataStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="All" />
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```
      <xs:enumeration value="Successful" />
      <xs:enumeration value="Error" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q470="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingDataStatus" nillable="true" type="q470:StagingDataStatus" />
  <xs:element name="StagingGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q471="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Batches" nillable="true" type="q471:ArrayOfStagingBatch" />
        <xs:element
xmlns:q472="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q472:OperationResult" />
        <xs:element
xmlns:q473="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="UnbatchedInformation" nillable="true" type="q473:ArrayOfStagingUnbatchedInformation" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfStagingBatch">
    <xs:sequence>
      <xs:element
xmlns:q474="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="StagingBatch" nillable="true" type="q474:StagingBatch" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q475="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfStagingBatch" nillable="true" type="q475:ArrayOfStagingBatch" />
  <xs:complexType name="StagingBatch">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q476="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q476:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BatchId" nillable="true" type="q476:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Errors" nillable="true"
type="q476:ArrayOfStagingBatchError">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Information" nillable="true"
type="q476:StagingBatchInformation">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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```
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Members" nillable="true"
type="q476:ArrayOfEntityMembers">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q477="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingBatch" nillable="true" type="q477:StagingBatch" />
  <xs:complexType name="ArrayOfStagingBatchError">
    <xs:sequence>
      <xs:element
xmlns:q478="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="StagingBatchError" nillable="true" type="q478:StagingBatchError"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q479="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfStagingBatchError" nillable="true" type="q479:ArrayOfStagingBatchError" />
  <xs:complexType name="StagingBatchError">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q480="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q480:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
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          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q480:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="TargetCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="TargetType" nillable="true"
type="q480:RelationshipType" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q480:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q481="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingBatchError" nillable="true" type="q481:StagingBatchError" />
  <xs:complexType name="StagingBatchInformation">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q482="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q482:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="BatchId" nillable="true" type="q482:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="LastRunEndDate" type="xs:dateTime" />
          <xs:element minOccurs="0" name="LastRunStartDate" type="xs:dateTime" />
          <xs:element minOccurs="0" name="MemberAttributeErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberAttributeTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberRelationshipErrorCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberRelationshipTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberTotalCount" type="xs:int" />
          <xs:element minOccurs="0" name="ModelName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="PriorBatchId" nillable="true"
type="q482:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SourceId" nillable="true" type="q482:Identifier">
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            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Status" type="q482:StagingBatchStatus" />
          <xs:element minOccurs="0" name="VersionId" type="xs:int" />
          <xs:element minOccurs="0" name="VersionName" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q483="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingBatchInformation" nillable="true" type="q483:StagingBatchInformation" />
  <xs:complexType name="ArrayOfStagingUnbatchedInformation">
    <xs:sequence>
      <xs:element
xmlns:q484="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="StagingUnbatchedInformation" nillable="true"
type="q484:StagingUnbatchedInformation" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q485="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfStagingUnbatchedInformation" nillable="true"
type="q485:ArrayOfStagingUnbatchedInformation" />
  <xs:complexType name="StagingUnbatchedInformation">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q486="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q486:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberAttributeCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
          <xs:element minOccurs="0" name="MemberRelationshipCount" type="xs:int" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q486:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q487="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingUnbatchedInformation" nillable="true" type="q487:StagingUnbatchedInformation" />
  <xs:element name="StagingClearRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q488="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Batches" nillable="true" type="q488:ArrayOfIdentifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="StagingClearResponse">
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    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AttributesRecordsClearedCount" type="xs:int" />
        <xs:element minOccurs="0" name="BatchesQueuedToClearCount" type="xs:int" />
        <xs:element minOccurs="0" name="MemberRecordsClearedCount" type="xs:int" />
        <xs:element
xmlns:q489="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q489:OperationResult" />
        <xs:element minOccurs="0" name="RelationshipRecordsClearedCount" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransactionsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q490="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="TransactionSearchCriteria" nillable="true" type="q490:TransactionSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="TransactionSearchCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q491="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q491:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q491:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="DateTimeBeginRange" nillable="true"
type="xs:dateTime" />
          <xs:element minOccurs="0" name="DateTimeEndRange" nillable="true"
type="xs:dateTime" />
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q491:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchyId" nillable="true"
type="q491:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q491:MemberIdentifier">
            <xs:annotation>
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              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberType" nillable="true" type="q491:MemberType"
/>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q491:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="NewValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
          <xs:element minOccurs="0" name="PageSize" nillable="true" type="xs:int" />
          <xs:element minOccurs="0" name="PriorValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SortColumn" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SortDirection" nillable="true"
type="q491:SortDirection" />
          <xs:element minOccurs="0" name="TransactionId" nillable="true" type="xs:int" />
          <xs:element minOccurs="0" name="TransactionType" nillable="true"
type="q491:TransactionType" />
          <xs:element minOccurs="0" name="UserId" nillable="true" type="q491:Identifier" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q491:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q492="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="TransactionSearchCriteria" nillable="true" type="q492:TransactionSearchCriteria" />
  <xs:simpleType name="TransactionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="CreateMember" />
      <xs:enumeration value="ChangeMemberStatus" />
      <xs:enumeration value="SetAttributeValue" />
      <xs:enumeration value="MoveMemberToParent" />
      <xs:enumeration value="MoveMemberToSibling" />
      <xs:enumeration value="AnnotateMember" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q493="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="TransactionType" nillable="true" type="q493:TransactionType" />
  <xs:element name="TransactionsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q494="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q494:OperationResult" />
```



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```
        <xs:element minOccurs="0" name="TotalRecordCount" type="xs:int" />
        <xs:element
xmlns:q495="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="TransactionList" nillable="true" type="q495:ArrayOfTransaction" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfTransaction">
    <xs:sequence>
      <xs:element
xmlns:q496="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Transaction" nillable="true" type="q496:Transaction" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q497="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfTransaction" nillable="true" type="q497:ArrayOfTransaction" />
  <xs:complexType name="Transaction">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q498="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q498:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AttributeId" nillable="true"
type="q498:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Date" type="xs:dateTime">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q498:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ExplicitHierarchyId" nillable="true"
type="q498:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Id" type="xs:int" />
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q498:MemberIdentifier">
            <xs:annotation>
```



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```
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberType" type="q498:MemberType" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q498:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="NewValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="PriorValue" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="TransactionType" type="q498:TransactionType" />
          <xs:element minOccurs="0" name="UserId" nillable="true" type="q498:Identifier" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q498:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q499="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Transaction" nillable="true" type="q499:Transaction" />
  <xs:element name="TransactionsReverseRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q500="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Transactions" nillable="true" type="q500:ArrayOfint" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransactionsReverseResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q501="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q501:OperationResult" />
        <xs:element
xmlns:q502="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="TransactionsReversed" nillable="true" type="q502:ArrayOfReplacementId" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfReplacementId">
    <xs:sequence>
      <xs:element
xmlns:q503="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ReplacementId" nillable="true" type="q503:ReplacementId" />
    </xs:sequence>
  </xs:complexType>
```



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  <xs:element xmlns:q504="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfReplacementId" nillable="true" type="q504:ArrayOfReplacementId" />
  <xs:complexType name="ReplacementId">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q505="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q505:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="NewId" type="xs:int" />
          <xs:element minOccurs="0" name="PriorId" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q506="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ReplacementId" nillable="true" type="q506:ReplacementId" />
  <xs:element name="ValidationGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q507="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationSearchCriteria" nillable="true" type="q507:ValidationSearchCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ValidationSearchCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q508="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q508:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q508:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="MemberTypeId" nillable="true"
type="q508:MemberType" />
          <xs:element minOccurs="0" name="Members" nillable="true"
type="q508:ArrayOfMemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q508:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="OmitIssuesList" type="xs:boolean">
            <xs:annotation>
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```
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="OmitSummary" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
          <xs:element minOccurs="0" name="PageSize" type="xs:int" />
          <xs:element minOccurs="0" name="SortColumn" nillable="true" type="xs:string">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SortDirection" type="q508:SortDirection" />
          <xs:element minOccurs="0" name="UserId" nillable="true" type="q508:Identifier" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q508:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q509="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationSearchCriteria" nillable="true" type="q509:ValidationSearchCriteria" />
  <xs:complexType name="ArrayOfMemberIdentifier">
    <xs:sequence>
      <xs:element
xmlns:q510="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MemberIdentifier" nillable="true" type="q510:MemberIdentifier" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q511="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMemberIdentifier" nillable="true" type="q511:ArrayOfMemberIdentifier" />
  <xs:element name="ValidationGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsRunning" type="xs:boolean" />
        <xs:element
xmlns:q512="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q512:OperationResult" />
        <xs:element
xmlns:q513="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="SummaryItems" nillable="true" type="q513:ArrayOfValidationSummaryItem" />
        <xs:element minOccurs="0" name="TotalIssueCount" type="xs:int" />
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        <xs:element
xmlns:q514="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationIssueList" nillable="true" type="q514:ArrayOfValidationIssue" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfValidationSummaryItem">
    <xs:sequence>
      <xs:element
xmlns:q515="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ValidationSummaryItem" nillable="true"
type="q515:ValidationSummaryItem" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q516="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfValidationSummaryItem" nillable="true" type="q516:ArrayOfValidationSummaryItem"
/>
  <xs:complexType name="ValidationSummaryItem">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q517="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q517:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberCount" type="xs:int" />
          <xs:element minOccurs="0" name="Status" type="q517:ValidationStatus" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q518="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationSummaryItem" nillable="true" type="q518:ValidationSummaryItem" />
  <xs:complexType name="ArrayOfValidationIssue">
    <xs:sequence>
      <xs:element
xmlns:q519="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ValidationIssue" nillable="true" type="q519:ValidationIssue" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q520="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfValidationIssue" nillable="true" type="q520:ArrayOfValidationIssue" />
  <xs:complexType name="ValidationIssue">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q521="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q521:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q521:AuditInfo">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BusinessRuleId" nillable="true"
type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
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```
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="BusinessRuleItemId" nillable="true"
type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="HierarchyId" nillable="true"
type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Id" type="xs:int" />
          <xs:element minOccurs="0" name="MemberId" nillable="true"
type="q521:MemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="NotificationSent" type="xs:boolean" />
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q521:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
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```
  <xs:element xmlns:q522="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationIssue" nillable="true" type="q522:ValidationIssue" />
  <xs:element name="ValidationProcessRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q523="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationProcessCriteria" nillable="true" type="q523:ValidationProcessCriteria" />
        <xs:element
xmlns:q524="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationProcessOptions" nillable="true" type="q524:ValidationProcessOptions" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ValidationProcessCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q525="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q525:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q525:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Members" nillable="true"
type="q525:ArrayOfMemberIdentifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q525:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q525:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q526="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationProcessCriteria" nillable="true" type="q526:ValidationProcessCriteria" />
  <xs:complexType name="ValidationProcessOptions">
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```
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q527="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q527:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="CommitVersion" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ReturnValidationResults" type="xs:boolean">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q528="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationProcessOptions" nillable="true" type="q528:ValidationProcessOptions" />
  <xs:element name="ValidationProcessResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q529="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q529:OperationResult" />
        <xs:element
xmlns:q530="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationIssueList" nillable="true" type="q530:ArrayOfValidationIssue" />
        <xs:element
xmlns:q531="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ValidationProcessResult" nillable="true" type="q531:ValidationProcessResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ValidationProcessResult">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q532="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q532:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="MembersInvalidCount" type="xs:int" />
          <xs:element minOccurs="0" name="MembersValidCount" type="xs:int" />
          <xs:element minOccurs="0" name="MembersValidatedCount" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q533="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ValidationProcessResult" nillable="true" type="q533:ValidationProcessResult" />
  <xs:element name="EntityMemberAnnotationsCreateRequest">
    <xs:complexType>
      <xs:sequence>
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        <xs:element
xmlns:q534="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Annotations" nillable="true" type="q534:ArrayOfAnnotation" />
        <xs:element
xmlns:q535="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityId" nillable="true" type="q535:Identifier" />
        <xs:element
xmlns:q536="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberId" nillable="true" type="q536:MemberIdentifier" />
        <xs:element
xmlns:q537="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelId" nillable="true" type="q537:Identifier" />
        <xs:element
xmlns:q538="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="VersionId" nillable="true" type="q538:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfAnnotation">
    <xs:sequence>
      <xs:element
xmlns:q539="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="Annotation" nillable="true" type="q539:Annotation" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q540="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfAnnotation" nillable="true" type="q540:ArrayOfAnnotation" />
  <xs:complexType name="Annotation">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q541="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q541:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="AuditInfo" nillable="true" type="q541:AuditInfo" />
          <xs:element minOccurs="0" name="Comment" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Id" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q542="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="Annotation" nillable="true" type="q542:Annotation" />
  <xs:element name="AnnotationsCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q543="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q543:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransactionAnnotationsCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q544="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Annotations" nillable="true" type="q544:ArrayOfAnnotation" />
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```



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```
  <xs:element name="EntityMemberAnnotationsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q545="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityId" nillable="true" type="q545:Identifier" />
        <xs:element
xmlns:q546="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberId" nillable="true" type="q546:MemberIdentifier" />
        <xs:element
xmlns:q547="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelId" nillable="true" type="q547:Identifier" />
        <xs:element
xmlns:q548="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="VersionId" nillable="true" type="q548:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMemberAnnotationsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q549="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Annotations" nillable="true" type="q549:ArrayOfAnnotation" />
        <xs:element
xmlns:q550="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityId" nillable="true" type="q550:Identifier" />
        <xs:element
xmlns:q551="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberId" nillable="true" type="q551:MemberIdentifier" />
        <xs:element
xmlns:q552="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelId" nillable="true" type="q552:Identifier" />
        <xs:element
xmlns:q553="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q553:OperationResult" />
        <xs:element
xmlns:q554="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="VersionId" nillable="true" type="q554:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransactionAnnotationsGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TransactionAnnotationsGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q555="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Annotations" nillable="true" type="q555:ArrayOfAnnotation" />
        <xs:element
xmlns:q556="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q556:OperationResult" />
        <xs:element minOccurs="0" name="TransactionId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
```



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```
  </xs:element>
  <xs:element name="AnnotationsUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Comment" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Id" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AnnotationsUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q557="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q557:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AnnotationsDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Id" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AnnotationsDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q558="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q558:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EntityMemberKeyGetRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q559="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="EntityId" nillable="true" type="q559:Identifier" />
        <xs:element
xmlns:q560="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="LookupType" type="q560:MemberKeyLookupType" />
        <xs:element
xmlns:q561="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberKeys" nillable="true" type="q561:ArrayOfMemberKey" />
        <xs:element
xmlns:q562="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberType" type="q562:MemberType" />
        <xs:element
xmlns:q563="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ModelId" nillable="true" type="q563:Identifier" />
        <xs:element
xmlns:q564="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="VersionId" nillable="true" type="q564:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="MemberKeyLookupType">
    <xs:restriction base="xs:string">
```



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```
      <xs:enumeration value="MemberCode" />
      <xs:enumeration value="MemberId" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q565="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberKeyLookupType" nillable="true" type="q565:MemberKeyLookupType" />
  <xs:complexType name="ArrayOfMemberKey">
    <xs:sequence>
      <xs:element
xmlns:q566="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="MemberKey" nillable="true" type="q566:MemberKey" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q567="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfMemberKey" nillable="true" type="q567:ArrayOfMemberKey" />
  <xs:complexType name="MemberKey">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q568="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q568:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="MemberCode" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="MemberId" type="xs:int" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q569="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="MemberKey" nillable="true" type="q569:MemberKey" />
  <xs:element name="EntityMemberKeyGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q570="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="MemberKeys" nillable="true" type="q570:ArrayOfMemberKey" />
        <xs:element
xmlns:q571="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q571:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="StagingProcessRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Process" type="xs:boolean" />
        <xs:element
xmlns:q572="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="UnbatchedCriteria" nillable="true" type="q572:StagingUnbatchedCriteria" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="StagingUnbatchedCriteria">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q573="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q573:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q573:Identifier">
            <xs:annotation>
              <xs:appinfo>
```



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```
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="SourceSystemId" nillable="true"
type="q573:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q573:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q574="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="StagingUnbatchedCriteria" nillable="true" type="q574:StagingUnbatchedCriteria" />
  <xs:element name="StagingProcessResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q575="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="BatchId" nillable="true" type="q575:StagingBatch" />
        <xs:element
xmlns:q576="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q576:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewCreateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q577="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ExportView" nillable="true" type="q577:ExportView" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ExportView">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q578="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q578:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="DerivedHierarchyId" nillable="true"
type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
```



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```
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="EntityId" nillable="true" type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="Identifier" nillable="true" type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="IsDirty" type="xs:boolean" />
          <xs:element minOccurs="0" name="Levels" type="xs:int" />
          <xs:element minOccurs="0" name="ModelId" nillable="true" type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionFlagId" nillable="true"
type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="VersionId" nillable="true" type="q578:Identifier">
            <xs:annotation>
              <xs:appinfo>
                <DefaultValue EmitDefaultValue="false"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
              </xs:appinfo>
            </xs:annotation>
          </xs:element>
          <xs:element minOccurs="0" name="ViewFormat" type="q578:ExportViewFormat" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element xmlns:q579="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ExportView" nillable="true" type="q579:ExportView" />
  <xs:simpleType name="ExportViewFormat">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="LeafAttributes" />
      <xs:enumeration value="ConsolidatedAttributes" />
```



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```
      <xs:enumeration value="CollectionAttributes" />
      <xs:enumeration value="Collections" />
      <xs:enumeration value="ExplicitParentChild" />
      <xs:enumeration value="ExplicitLevels" />
      <xs:enumeration value="DerivedParentChild" />
      <xs:enumeration value="DerivedLevels" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element xmlns:q580="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ExportViewFormat" nillable="true" type="q580:ExportViewFormat" />
  <xs:element name="ExportViewCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q581="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q581:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewUpdateRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q582="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ExportView" nillable="true" type="q582:ExportView" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewUpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q583="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q583:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewDeleteRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q584="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="Identifier" nillable="true" type="q584:Identifier" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewDeleteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q585="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q585:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ExportViewListGetRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
```



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```
  <xs:element name="ExportViewListGetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q586="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="ExportViews" nillable="true" type="q586:ArrayOfExportView" />
        <xs:element
xmlns:q587="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
name="OperationResult" nillable="true" type="q587:OperationResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfExportView">
    <xs:sequence>
      <xs:element
xmlns:q588="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" minOccurs="0"
maxOccurs="unbounded" name="ExportView" nillable="true" type="q588:ExportView" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q589="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
name="ArrayOfExportView" nillable="true" type="q589:ArrayOfExportView" />
</xs:schema>
```

## 6.3 International Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://www.w3.org/2005/09/ws-i18n" elementFormDefault="qualified"
targetNamespace="http://www.w3.org/2005/09/ws-i18n"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d0" namespace="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09" />
  <xs:complexType name="International">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q1="http://schemas.microsoft.com/sqlserver/masterdataservices/2009/09"
base="q1:DataContractBase">
        <xs:sequence>
          <xs:element minOccurs="0" name="Locale" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Tz" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="International" nillable="true" type="tns:International" />
</xs:schema>
```

## 6.4 Serialization Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
```



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```
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-
F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>
```

## 6.5 Serialization Arrays Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
schemaLocation="http://brenmc3.redmond.corp.microsoft.com/MDS_mpc1/service/Service.svc?xsd=xs
d1" namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfanyType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"
type="xs:anyType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfanyType" nillable="true" type="tns:ArrayOfanyType" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
```



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```
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
  <xs:complexType name="ArrayOfKeyValueOfstringstring">
    <xs:annotation>
      <xs:appinfo>
        <IsDictionary
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsDictionary>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringstring">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element name="Value" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfKeyValueOfstringstring" nillable="true"
type="tns:ArrayOfKeyValueOfstringstring" />
  <xs:complexType name="ArrayOfint">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfint" nillable="true" type="tns:ArrayOfint" />
</xs:schema>
```

## 6.6 Data Contracts Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.MasterDataServices.Services.Data
Contracts" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.MasterDataServices.Service
s.DataContracts" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="http://ck-
testvm1.redmond.corp.microsoft.com/MDS/service/Service.svc?xsd=xsd1"
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="GroupType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="InternalGroup" />
      <xs:enumeration value="ActiveDirectoryGroup" />
      <xs:enumeration value="LocalGroup" />
      <xs:enumeration value="OtherGroup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
```



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```
  </xs:simpleType>
  <xs:element name="GroupType" nillable="true" type="tns:GroupType" />
  <xs:simpleType name="FunctionalArea">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Explorer" />
      <xs:enumeration value="Versions" />
      <xs:enumeration value="ImportExport" />
      <xs:enumeration value="Security" />
      <xs:enumeration value="SystemAdministration" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="FunctionalArea" nillable="true" type="tns:FunctionalArea" />
  <xs:simpleType name="PrincipalType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="UserAccount" />
      <xs:enumeration value="Group" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="PrincipalType" nillable="true" type="tns:PrincipalType" />
  <xs:simpleType name="Permission">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Deny" />
      <xs:enumeration value="Update" />
      <xs:enumeration value="ReadOnly" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="Permission" nillable="true" type="tns:Permission" />
  <xs:simpleType name="ModelObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Model" />
      <xs:enumeration value="Entity">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Attribute">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="AttributeGroup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ExplicitHierarchy">
```



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```
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DerivedHierarchy">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="LeafMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ConsolidatedMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="CollectionMemberType">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ModelObjectType" nillable="true" type="tns:ModelObjectType" />
  <xs:simpleType name="EmailFormat">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NotSpecified" />
      <xs:enumeration value="HTML" />
      <xs:enumeration value="Text" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="EmailFormat" nillable="true" type="tns:EmailFormat" />
  <xs:simpleType name="SecurityResolutionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="UserAndGroup" />
      <xs:enumeration value="Users" />
      <xs:enumeration value="Effective" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SecurityResolutionType" nillable="true" type="tns:SecurityResolutionType"
/>
```



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```
</xs:schema>
```

## 6.7 System Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="Version">
    <xs:sequence>
      <xs:element name="_Build" type="xs:int" />
      <xs:element name="_Major" type="xs:int" />
      <xs:element name="_Minor" type="xs:int" />
      <xs:element name="_Revision" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="Version" nillable="true" type="tns:Version" />
</xs:schema>
```



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# 7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft SQL Server 2008 R2
- Microsoft SQL Server 2012

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

<1> Section 2.2.4.111: **StagingBatchError** is not supported by SQL Server 2012.

<2> Section 2.2.4.113: **StagingUnbatchedInformation** is not supported by SQL Server 2012.

<3> Section 3.1.4.55.2.2: **ReplacementId** is not supported by SQL Server 2012; the **ArrayOfReplacementId** response is always returned empty.

<4> Section 3.1.4.55.3.1: **ReplacementId** is not supported by SQL Server 2012; the **ArrayOfReplacementId** response is always returned empty.

<5> Section 3.1.4.55.3.1: **ReplacementId** is not supported by SQL Server 2012.

<6> Section 3.1.4.55.3.2: **ReplacementId** is not supported by SQL Server 2012.



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# 8 Change Tracking

This section identifies changes that were made to the [MS-SSMDSWS] protocol document between the October 2012 and March 2013 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.



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- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated.**

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| 2.2.2.3 SecurityPrivilegesRequest | 447785<br>Added section. | Y | New content added. |
| 2.2.3 Elements | 447785<br>Added content to summarize section's content and moved SecurityPrincipalsRequest element description to SecurityPrincipalsRequest subsection. | N | Content updated. |
| 2.2.3.1 SecurityPrincipalsRequest | 447785<br>Added section to contain content moved from the Elements section. | N | New content added. |
| 2.2.3.2 SecurityPrivilegesRequest | 447785<br>Added section to contain content moved from SecurityPrivilegesClone section. | Y | New content added. |
| 2.2.4 Complex Types | 427492<br>Added ArrayOfSystemDomainList complex type. | Y | Content updated. |
| 2.2.4 Complex Types | 427495<br>Added ArrayOfSystemDomainListItem, | Y | Content updated. |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| | SystemDomainList, and SystemDomainListItem complex types. | | |
| 2.2.4 Complex Types | 447785 Removed SecurityPrivilegesRequest element. | N | Content updated. |
| 2.2.4 Complex Types | 969494 Modified description of EntityMembers. | Y | Content updated. |
| 2.2.4 Complex Types | 427498 Added ArrayOfKeyValueOfstringstring. | Y | Content updated. |
| 2.2.4.29 ArrayOfKeyValueOfstringstring | 427498 Added section. | Y | Content updated. |
| 2.2.4.41 ArrayOfSystemDomainList | 427492 Added section. | Y | New content added. |
| 2.2.4.42 ArrayOfSystemDomainListItem | 427495 Added section. | Y | New content added. |
| 2.2.4.94 MdmDataContractOfMemberTypeContextIdentifier | 965563 Clarified that Permission element specifies the PermissionType simple type. | N | Content updated. |
| 2.2.4.95 MdmDataContractOfModelContextIdentifier | 965563 Clarified that the Permission element specifies the PermissionType simple type. | N | Content updated. |
| 2.2.4.101 MetadataAttribute | 934522 Added descriptions for AttributeType, DataType, and DataTypeInformation. | N | Content updated. |
| 2.2.4.111 StagingBatchError | 966289 Added ErrorCode, TargetCode, and TargetType elements. | Y | Content updated. |
| 2.2.4.111 StagingBatchError | 450124 Added product behavior note to describe that SQL Server 2012 does not support this type. | Y | New product behavior note added. |
| 2.2.4.113 StagingUnbatchedInformation | 971132 Added product behavior note to describe that SQL Server 2012 does | Y | New product behavior |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| | not support this type. | | note added. |
| 2.2.4.114 SystemDomainList | 427495 Added section. | Y | New content added. |
| 2.2.4.115 SystemDomainListItem | 427495 Added section. | Y | New content added. |
| 2.2.5.2 AttributeType | 452179 Clarified that the System enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.2 AttributeType | 452177 Clarified that the NotSpecified enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.6 BRPropertyName | 968012 Clarified that the NotSpecified enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.7 BRStatus | 968035 Clarified that the Undefined enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.10 ExportViewFormat | 431192 Clarified that the NotSpecified enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.11 FunctionalArea | 967011 Clarified that the None enumeration value MUST NOT be used. | Y | Content updated. |
| 2.2.5.11 FunctionalArea | 429955 Removed Reporting enumeration value. | Y | Content updated. |
| 2.2.5.12 GroupType | 452175 Added LocalGroup and removed SharepointGroup and SharepointAudience enumeration values, and clarified that only ActiveDirectoryGroup and LocalGroup can be used. | Y | Content updated. |
| 2.2.5.13 HierarchyItemType | 969505 Added NotApplicable enumeration | Y | Content updated. |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| | value. | | |
| 2.2.5.19 ModelObjectType | 967073<br>Clarified that None=0 enumeration value must not be used. | Y | Content updated. |
| 2.2.5.22 PermissionType | 452171<br>Removed Unknown enumeration value. | Y | Content updated. |
| 2.2.5.23 PrincipalType | 967013<br>Clarified that None enumeration value must not be used. | Y | Content updated. |
| 2.2.5.30 StagingBatchStatus | 967081<br>Added AllExceptCleared and Completed enumeration values, and clarified descriptions of QueuedToClear and Cleared enumeration values. | Y | Content updated. |
| 2.2.5.34 ValidationStatus | 967082<br>Removed Validating and AwaitingLevelRecalculation enumeration values, and clarified descriptions of AwaitingRevalidation and AwaitingDependentMemberRevalidation enumeration values. | Y | Content updated. |
| 2.2.5.35 VersionStatus | 452211<br>Clarified that the NotSpecified enumeration value MUST NOT be used. | Y | Content updated. |
| 3.1.4.15.2.2 EntityMembersCreateResponse | 969492<br>Added CreatedMembers element. | Y | Content updated. |
| 3.1.4.18.2.1 EntityMembersMergeRequest | 969494<br>Replaced ServiceConnectionName element with ReturnCreatedIdentifiers element. | Y | Content updated. |
| 3.1.4.18.2.2 EntityMembersMergeResponse | 969492<br>Added CreatedMembers element. | Y | Content updated. |
| 3.1.4.33.2.1 ModelMembersGetRequest | 934547<br>Replaced all content. | Y | Content updated. |
| 3.1.4.33.3 Complex Types | 934547<br>Added section. | Y | New content added. |
| 3.1.4.33.3.1 | 934547 | Y | New |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| ModelMembersGetCriteria | Added section. | | content added. |
| 3.1.4.33.3.2 ModelMembersResultCriteria | 934547<br>Added section. | Y | New content added. |
| 3.1.4.34 SecurityPrincipalsClone | 926073<br>Clarified that a standard MessageResponse message is returned. | N | Content updated. |
| 3.1.4.36 SecurityPrincipalsDelete | 926073<br>Clarified that a standard MessageResponse message is returned. | N | Content updated. |
| 3.1.4.37.3 Complex Types | Added section. | Y | Content updated. |
| 3.1.4.37.3.1 SecurityPrincipalsCriteria | Moved SecurityPrincipalsCriteria complex type content from SecurityPrincipalsGet Elements. | Y | Content updated. |
| 3.1.4.39 SecurityPrivilegesClone | 926073<br>Clarified that a standard MessageResponse message is returned. | N | Content updated. |
| 3.1.4.41 SecurityPrivilegesDelete | 926073<br>Clarified that a standard MessageResponse message is returned. | N | Content updated. |
| 3.1.4.52 TransactionAnnotationsCreate | 926073<br>Clarified that AnnotationsCreateResponse message is returned. | N | Content updated. |
| 3.1.4.55.2.2 TransactionsReverseResponse | 449183<br>Added product behavior note describing SQL Server 2012 behavior. | Y | New product behavior note added. |
| 3.1.4.55.3.1 ArrayOfReplacementId | 449183<br>Added product behavior notes describing SQL Server 2012 behavior. | Y | New product behavior note added. |
| 3.1.4.55.3.2 ReplacementId | 449183<br>Added product behavior note describing SQL Server 2012 | Y | New product behavior |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| | behavior. | | note added. |
| 3.1.4.56.2.1 UserPreferencesDeleteRequest | 427498<br>Clarified description of ArrayOfKeyValueOfstringstring. | N | Content updated. |
| 3.1.4.57.2.2 UserPreferencesGetResponse | 427498<br>Clarified description of ArrayOfKeyValueOfstringstring. | N | Content updated. |
| 3.1.4.58.2.1 UserPreferencesUpdateRequest | 427498<br>Clarified description of ArrayOfKeyValueOfstringstring. | N | Content updated. |
| 3.1.4.61 VersionCopy | 961860<br>Specified that ToVersionDescription and ToVersionName are required elements. | N | Content updated. |
| 3.1.4.61.2.1 VersionCopyRequest | 961860<br>Specified that FromVersionId, ToVersionDescription, and ToVersionName are required elements. | N | Content updated. |
| 6.1 Master Data Services WSDL | 926073<br>Clarified that the TransactionAnnotationsCreate operation returns an AnnotationsCreateResponse message. | N | Content updated. |
| 6.2 Master Data Services Schema | 961860<br>Changed FromVersionId, ToVersionDescription, and ToVersionName minOccurs from 0 to 1 for VersionCopyRequest. | Y | Content updated. |
| 6.2 Master Data Services Schema | 452171<br>Removed Unknown enumeration value from PermissionType simple type. | Y | Content updated. |
| 6.2 Master Data Services Schema | 967082<br>Removed Validating enumeration value from ValidationStatus simple type. | Y | Content updated. |
| 6.2 Master Data Services Schema | 969492<br>Added CreatedMembers element to EntityMembersCreateResponse and EntityMembersMergeResponse. | Y | Content updated. |



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| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|---|---|
| 6.2 Master Data Services Schema | 969494 Added ReturnCreatedIdentifiers element to EntityMembersMergeRequest. | Y | Content updated. |
| 2.2.4.106 SecurityPrivilegesRequest | 447785 Moved SecurityPrivilegesRequest request element content to Common Message Syntax Elements section. | N | Content removed. |
| 3.1.4.46.4 Simple Types | 427494 Removed section. | N | Content removed. |
| 3.1.4.46.4.1 SystemPropertyType | 427494 Removed section. | N | Content removed. |



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