[MS-SSAS-T]: SQL Server Analysis Services Tabular Protocol

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June 22, 2020 - Download

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Errata below are for Protocols Document Version V9.0 – 2021/04/06.

Errata Published*	Description
2021/12/17	In section 2.2.5.4, Column Object, the ExtendedType (248) value was clarified. Changed from:

Name	Type	Description
. . .		
DataCategory	string	The values in the following enumeration PropertyType are automatically mapped to the LEVEL_TYPE column that is defined in [MS-SSAS] section 3.1.4.2.2.1.3.8.1. All other strings map to EXTENDEDTYPE (0x12B1) and are returned as-is in the Contents property of conceptual schema definition language (CSDL) for the column: ▪ Invalid (-1) ▪ All (1) ▪ Regular (2) . . .
. . .		

Changed to:

Name	Type	Description
. . .		
DataCategory	string	The values in the following enumeration PropertyType are automatically mapped to

Errata Published*	Description		
			the LEVEL_TYPE column that is defined in [MS-SSAS] section 3.1.4.2.2.1.3.8.1.
			All other strings map to ExtendedType (248) and are returned as-is in the Contents property of conceptual schema definition language (CSDL) for the column:
			▪ Invalid (-1)
			▪ All (1)
			▪ Regular (2)
			. . .
	. . .		
2021/12/17	In section 2.2.5.33, Common Restrictions for Data Operations, the type TimeRestrictionOp was replaced with the type enumeration for the ModifiedTimeOp, StructureModifiedTimeOp, and RefreshedTimeOp restrictions.		
	Changed from:		

Restriction	Type	Description
. . .		
ModifiedTimeOp	TimeRestrictionOp	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).
StructureModifiedTimeOp	TimeRestrictionOp	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).
RefreshedTimeOp	TimeRestrictionOp	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).

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Changed to:

Restriction	Type	Description
. . .		
ModifiedTimeOp	enumeration	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).
StructureModifiedTimeOp	enumeration	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).
RefreshedTimeOp	enumeration	Can apply to a Discover operation that includes one or more dateTime fields. The possible values are as follows: ▪ TIME_RESTRICTION_NEWER (0). This is the default value. ▪ TIME_RESTRICTION_OLDER (1).

2021/12/17	In the schema in section 3.1.5.2.1, XMLA-Based Tabular Metadata Commands, the complex type names MergePartitionsTabular, DBCCTabular, SequencePointTabular, and UpgradeTabular were revised to TabularMergePartitionCommandType, TabularDBCCCommandType, TabularSequencePointCommandType, and TabularCommandType, respectively.
	
	Changed from:
	
	`    <xsd:complexType name="Command">`
	`      <xsd:choice>`
	`        <xsd:element name="Create" type="mstns:TabularCommandType"`
	`minOccurs="0" />`
	`        <xsd:element name="Alter" type="mstns:TabularCommandType"`
	`minOccurs="0" />`
	`        <xsd:element name="Delete" type="mstns:TabularCommandType"`
	`minOccurs="0" />`
	`        <xsd:element name="Rename" type="mstns:TabularCommandType"`
	`minOccurs="0" />`
	`        <xsd:element name="Refresh" type="mstns:TabularRefreshCommandType"`
	`minOccurs="0" />`
	`        <xsd:element name="MergePartitions" type="mstns:`
	`MergePartitionsTabular" minOccurs="0" />`
	`        <xsd:element name="DBCC" type="mstns:DBCCTabular" minOccurs="0" />`

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| | ```
          <xsd:element name="SequencePoint" type="mstns:SequencePointTabular"
    minOccurs="0" />
          <xsd:element name="Upgrade" type="mstns: UpgradeTabular"
    minOccurs="0" />
      </xsd:choice>
    </xsd:complexType>


    <xsd:complexType name="Command">
      <xsd:choice>
        <xsd:element name="Create" type="mstns:TabularCommandType"
    minOccurs="0" />
        <xsd:element name="Alter" type="mstns:TabularCommandType"
    minOccurs="0" />
        <xsd:element name="Delete" type="mstns:TabularCommandType"
    minOccurs="0" />
        <xsd:element name="Rename" type="mstns:TabularCommandType"
    minOccurs="0" />
        <xsd:element name="Refresh" type="mstns:TabularRefreshCommandType"
    minOccurs="0" />
        <xsd:element name="MergePartitions"
    type="mstns:TabularMergePartitionCommandType" minOccurs="0" />
        <xsd:element name="DBCC" type="mstns:TabularDBCCCommandType"
    minOccurs="0" />
        <xsd:element name="SequencePoint"
    type="mstns:TabularSequencePointCommandType" minOccurs="0" />
        <xsd:element name="Upgrade" type="mstns:TabularCommandType"
    minOccurs="0" />
      </xsd:choice>
    </xsd:complexType>
``` |
| 2021/12/17 | In section 3.1.5.2.1.7.1, Request, the complex type name DBCC was revised to TabularDBCCCommandType.

Changed from:

```
    <xsd:complexType name="DBCC">
        <xsd:sequence>
          <xsd:element name="DatabaseID" type="string" />
          <xsd:element name="TableName" type="string" />
          <xsd:element name="PartitionName" type="string" />
        </xsd:sequence>
    </xsd:complexType>
```

Changed to:

```
    <xsd:complexType name="TabularDBCCCommandType">
        <xsd:sequence>
          <xsd:element name="DatabaseID" type="string" />
          <xsd:element name="TableName" type="string" />
          <xsd:element name="PartitionName" type="string" />
        </xsd:sequence>
    </xsd:complexType>
``` |
| 2021/12/17 | In section 3.1.5.2.1.8.1, Request, the complex type name SequencePoint was revised to TabularSequencePointCommandType. |

Changed to:

The "Changed to" for the first row begins with `<xsd:complexType name="Command">`.

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	Changed from: ``` <xsd:complexType name="SequencePoint"> <xsd:sequence> <xsd:element name="DatabaseID" type="string" /> </xsd:sequence> </xsd:complexType> ``` Changed to: ``` <xsd:complexType name="TabularSequencePointCommandType"> <xsd:sequence> <xsd:element name="DatabaseID" type="string" /> </xsd:sequence> </xsd:complexType> ```

2021/12/17	In the JSON in section 3.1.5.2.2.1.2, model, properties were added for the dataAccessOptions object.
	
	Changed from:
	
	The JSON schema for the model object is as follows.
	
	``
	{
	  "description": "Model object of Tabular Object Model (TOM)",
	  "type": "object",
	  "properties": {
	    "name": {
	      "type": "string"
	
	...
	
	  "collation": {
	      "type": "string"
	    },
	    "dataAccessOptions": {
	      "type": "object"
	    },
	    "defaultMeasure": {
	...
	``
	
	Changed to:
	
	The JSON schema for the model object is as follows.
	
	``
	{
	  "description": "Model object of Tabular Object Model (TOM)",
	  "type": "object",
	  "properties": {
	    "name": {
	      "type": "string"
	
	...
	
	  "collation": {
	      "type": "string"
	    },
	    "dataAccessOptions": {
	      "type": "object",
	``

Errata Published*	Description
	```json "properties": { "fastCombine": { "type": "boolean" }, "legacyRedirects": { "type": "boolean" }, "returnErrorValuesAsNull": { "type": "boolean" }, } }, "defaultMeasureID": { ... ```

*Date format: YYYY/MM/DD