

# OData Import Rules

Bridge 7 The OData Importer imports [OData Version 4.0](#) definitions encoded in CSDL (.edmx) and creates UML model elements corresponding to the definitions.  
The CSDL file of your OData service can be retrieved from this URL: [http://<servicehost>/<servicepath>/\\$metadata](http://<servicehost>/<servicepath>/$metadata).

## Limitations

- The OData Importer supports OData files of version 4.0 for entity and service description.
- Concerning older OData versions, we mostly support 3.0 for entity import but cannot import service descriptions.

## Service Import Limitations

The OData Importer has the following limitations concerning import of service descriptions:

- You cannot use **\$count** to get the number of records returned by a request. This would return an integer in the response body and that is not supported.
- You cannot use **Open Type** features to support dynamic properties.
- You cannot request an **individual property** of a complex structure using `<entity name> ('<entity ID'')/<individual property name>`.
- You cannot group multiple requests using the **batch** feature of OData.

## OData Primitive Types

OData Type	Description	Supported by Importer	E2E Type
<b>Edm.Binary</b>	Binary data	✓	Blob
<b>Edm.Boolean</b>	Binary-valued logic	✓	Boolean
<b>Edm.Byte</b>	Unsigned 8-bit integer	✓	Integer
<b>Edm.Date</b>	Date without a time-zone offset	✓	DateTime
<b>Edm.DateTimeOffset</b>	Date and time with a time-zone offset, no leap seconds	✓	DateTime
<b>Edm.Decimal</b>	Numeric values with fixed precision and scale	✓	Float
<b>Edm.Double</b>	IEEE 754 binary64 floating-point number (15-17 decimal digits)	✓	Float
<b>Edm.Duration</b>	Signed duration in days, hours, minutes, and (sub) seconds	✗	
<b>Edm.Guid</b>	16-byte (128-bit) unique identifier	✓	String
<b>Edm.Int16</b>	Signed 16-bit integer	✓	Integer
<b>Edm.Int32</b>	Signed 32-bit integer	✓	Integer
<b>Edm.Int64</b>	Signed 64-bit integer	✓	Integer
<b>Edm.SByte</b>	Signed 8-bit integer	✗	
<b>Edm.Single</b>	IEEE 754 binary32 floating-point number (6-9 decimal digits)	✓	Float
<b>Edm.Stream</b>	Binary data stream	✗	
<b>Edm.String</b>	Sequence of UTF-8 characters	✓	String
<b>Edm.TimeOfDay</b>	Clock time 00:00-23:59:59.999999999999	✗	
<b>Edm.Geography</b>	Abstract base type for all Geography types	✗	
<b>Edm.GeographyPoint</b>	A point in a round-earth coordinate system	✗	
<b>Edm.GeographyLineString</b>	Line string in a round-earth coordinate system	✗	
<b>Edm.GeographyPolygon</b>	Polygon in a round-earth coordinate system	✗	
<b>Edm.GeographyMultiPoint</b>	Collection of points in a round-earth coordinate system	✗	

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### Related Pages:

- [Importing OData Entities and Services](#)

<b>Edm. GeographyMultiLineString</b>	Collection of line strings in a round-earth coordinate system	✖	
<b>Edm. GeographyMultiPolygon</b>	Collection of polygons in a round-earth coordinate system	✖	
<b>Edm.GeographyCollection</b>	Collection of arbitrary Geography values	✖	
<b>Edm.Geometry</b>	Abstract base type for all Geometry types	✖	
<b>Edm.GeometryPoint</b>	Point in a flat-earth coordinate system	✖	
<b>Edm.GeometryLineString</b>	Line string in a flat-earth coordinate system	✖	
<b>Edm.GeometryPolygon</b>	Polygon in a flat-earth coordinate system	✖	
<b>Edm.GeometryMultiPoint</b>	Collection of points in a flat-earth coordinate system	✖	
<b>Edm.GeometryMultiLineString</b>	Collection of line strings in a flat-earth coordinate system	✖	
<b>Edm.GeometryMultiPolygon</b>	Collection of polygons in a flat-earth coordinate system	✖	
<b>Edm.GeometryCollection</b>	Collection of arbitrary Geometry values	✖	

On importing an OData entities description, the importer will generate a package structure from the OData definitions. The entities are generated to a package **Entities**, the types to a package **Types**. For each entity and type, a corresponding collection type is created.