

OData Import Rules

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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`.

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
Edm.Binary	Binary data	✓	Blob
Edm.Boolean	Binary-valued logic	✓	Boolean
Edm.Byte	Unsigned 8-bit integer	✓	Integer
Edm.Date	Date without a time-zone offset	✓	DateTime
Edm.DateTimeOffset	Date and time with a time-zone offset, no leap seconds	✓	DateTime
Edm.Decimal	Numeric values with fixed precision and scale	✓	Float
Edm.Double	IEEE 754 binary64 floating-point number (15-17 decimal digits)	✓	Float
Edm.Duration	Signed duration in days, hours, minutes, and (sub)seconds	✗	
Edm.Guid	16-byte (128-bit) unique identifier	✓	String
Edm.Int16	Signed 16-bit integer	✓	Integer
Edm.Int32	Signed 32-bit integer	✓	Integer
Edm.Int64	Signed 64-bit integer	✓	Integer
Edm.SByte	Signed 8-bit integer	✗	
Edm.Single	IEEE 754 binary32 floating-point number (6-9 decimal digits)	✓	Float

Edm.Stream	Binary data stream	✘	
Edm.String	Sequence of UTF-8 characters	✔	String
Edm.TimeOfDay	Clock time 00:00-23:59:59.999999999999	✘	
Edm.Geography	Abstract base type for all Geography types	✘	
Edm.GeographyPoint	A point in a round-earth coordinate system	✘	
Edm.GeographyLineString	Line string in a round-earth coordinate system	✘	
Edm.GeographyPolygon	Polygon in a round-earth coordinate system	✘	
Edm.GeographyMultiPoint	Collection of points in a round-earth coordinate system	✘	
Edm.GeographyMultiLineString	Collection of line strings in a round-earth coordinate system	✘	
Edm.GeographyMultiPolygon	Collection of polygons in a round-earth coordinate system	✘	
Edm.GeographyCollection	Collection of arbitrary Geography values	✘	
Edm.Geometry	Abstract base type for all Geometry types	✘	
Edm.GeometryPoint	Point in a flat-earth coordinate system	✘	
Edm.GeometryLineString	Line string in a flat-earth coordinate system	✘	
Edm.GeometryPolygon	Polygon in a flat-earth coordinate system	✘	
Edm.GeometryMultiPoint	Collection of points in a flat-earth coordinate system	✘	
Edm.GeometryMultiLineString	Collection of line strings in a flat-earth coordinate system	✘	
Edm.GeometryMultiPolygon	Collection of polygons in a flat-earth coordinate system	✘	
Edm.GeometryCollection	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.