

OData Common Schema Definition Language (CSDL) XML Representation Version 4.02

Committee Specification Draft 01

14 July 2023

This stage:

https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/csd01/odata-csdl-xml-v4.02-csd01.md (Authoritative)

https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/csd01/odata-csdl-xml-v4.02-csd01.html https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/csd01/odata-csdl-xml-v4.02-csd01.pdf

Previous stage:

N/A

Latest stage:

https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/odata-csdl-json-v4.02.md (Authoritative) https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/odata-csdl-json-v4.02.html https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/odata-csdl-json-v4.02.pdf

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Additional artifacts:

This prose specification is one component of a Work Product that also includes:

- XML schemas: (list file names or directory name)
- Other parts (list titles and/or file names)
- (Note: Any normative computer language definitions that are part of the Work Product, such as XML instances, schemas and Java(TM) code, including fragments of such, must be (a) well formed and valid, (b) provided in separate plain text files, (c) referenced from the Work Product; and (d) where any definition in these separate files disagrees with the definition found in the specification, the definition in the separate file prevails. Remove this note before submitting for publication.)

Related work:

This specification replaces or supersedes:

OData Common Schema Definition Language (CSDL) JSON Representation Version 4.01.
 Edited by Michael Pizzo, Ralf Handl, and Martin Zurmuehl. OASIS Standard. Latest stage: https://docs.oasis-open.org/odata/odata-csdl-json/v4.01/odata-csdl-json-v4.01.html.

This specification is related to:

- *OData Version 4.02*. Edited by Michael Pizzo, Ralf Handl, and Heiko Theißen. A multi-part Work Product that includes:
 - OData Version 4.02 Part 1: Protocol. Latest stage. https://docs.oasis-open.org/odata/odata/v4.02/odata-v4.02-part1-protocol.html
 - OData Version 4.02 Part 2: URL Conventions. Latest stage. https://docs.oasis-open.org/odata/odata/v4.02/odata-v4.02-part2-url-conventions.html

Abstract:

OData services are described by an Entity Model (EDM). The Common Schema Definition Language (CSDL) defines specific representations of the entity data model exposed by an OData service, using XML, JSON, and other formats. This document (OData CSDL JSON Representation) specifically defines the JSON representation of CSDL.

Status:

This document was last revised or approved by the OASIS Open Data Protocol (OData) TC on the above date. The level of approval is also listed above. Check the "Latest stage" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at https://www.oasis-open.org/committees/tc home.php?wg_abbrev=odata#technical.

TC members should send comments on this specification to the TC's email list. Others should send comments to the TC's public comment list, after subscribing to it by following the instructions at the "Send A Comment" button on the TC's web page at https://www.oasis-open.org/committees/odata/.

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Note that any machine-readable content (<u>Computer Language Definitions</u>) declared Normative for this Work Product is provided in separate plain text files. In the event of a discrepancy between any such plain text file and display content in the Work Product's prose narrative document(s), the content in the separate plain text file prevails.

Key words:

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] and [RFC8174] when, and only when, they appear in all capitals, as shown here.

Citation format:

When referencing this specification the following citation format should be used:

[OData-CSDL-JSON-v4.02]

OData Common Schema Definition Language (CSDL) JSON Representation Version 4.02. Edited by Ralf Handl, Michael Pizzo, and Heiko Theißen. 14 July 2023. OASIS Committee Specification Draft 01. https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/csd01/odata-csdl-xml-v4.02-csd01.html. Latest stage: https://docs.oasis-open.org/odata/odata-csdl-json/v4.02/odata-csdl-json-v4.02.html.

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1 Introduction

OData services are described in terms of an <u>Entity Model</u>. The Common Schema Definition Language (CSDL) defines a representation of the entity model exposed by an OData service using the JavaScript Object Notation (JSON)[, see[]{.apple-converted-space}]{style="color:black"}[[RFC8259]].

This format is based on the OpenUI5 OData V4 Metadata JSON Format, see [OpenUI5], with some extensions and modifications made necessary to fully cover OData CSDL Version 4.01.

1.1 Changes from earlier Versions

1.2 Glossary

1.2.1 Definitions of terms

1.2.2 Acronyms and abbreviations

1.2.3 Document conventions

Keywords defined by this specification use this monospaced font.

Some sections of this specification are illustrated with non-normative examples.

Example 1: text describing an example uses this paragraph style

```
Non-normative examples use this paragraph style.
```

All examples in this document are non-normative and informative only. Examples labeled with \triangle contain advanced concepts or make use of keywords that are defined only later in the text, they can be skipped at first reading.

Representation-specific text is indented and marked with vertical lines.

Representation-Specific Headline

Normative representation-specific text

All other text is normative unless otherwise labeled.

Here is a customized command line which will generate HTML from this markdown file (named odata-csdl-xml-v4.02-csd01.md). Line breaks are added for readability only:

```
pandoc -f gfm+tex_math_dollars+fenced_divs
    -t html
    -o odata-csdl-xml-v4.02-csd01.html
    -c styles/markdown-styles-v1.7.3b.css
    -c styles/odata.css
    -s
    --mathjax
    --eol=lf
    --wrap=none
```

--metadata pagetitle="OData Common Schema Definition Language (CSDL) XML Representation Version 4.02" odata-csdl-xml-v4.02-csd01.md

This uses pandoc 3.1.2 from https://github.com/jgm/pandoc/releases/tag/3.1.2.

2 XML Representation

OData CSDL XML is a full representation of the OData Common Schema Definition Language in the Extensible Markup Language (XML) 1.1 (Second Edition) XML-1.1 with further building blocks from the W3C XML Schema Definition Language (XSD) 1.1 as described in XML-Schema-1 and XML-Schema-2.

It is an alternative to the CSDL JSON representation defined in <u>OData-CSDLJSON</u> and neither adds nor removes features.

2.1 Requesting the XML Representation

The OData CSDL XML representation can be requested using the \$format query option in the request URL with the media type application/xml, optionally followed by media type parameters, or the case-insensitive abbreviation xml which MUST NOT be followed by media type parameters.

Alternatively, this representation can be requested using the Accept header with the media type application/xml, optionally followed by media type parameters.

If specified, \$format overrides any value specified in the Accept header.

The response MUST contain the Content-Type header with a value of application/xml, optionally followed by media type parameters.

This specification does not define additional parameters for the media type application/xml.

2.2 XML Namespaces

In addition to the default XML namespace, the elements and attributes used to describe the entity model of an OData service are defined in one of the following namespaces.

2.2.1 Namespace EDMX

Elements and attributes associated with the top-level wrapper that contains the CSDL used to define the entity model for an OData Service are qualified with the Entity Data Model for Data Services Packaging namespace:

http://docs.oasis-open.org/odata/ns/edmx

Prior versions of OData used the following namespace for EDMX:

EDMX version 1.0: http://schemas.microsoft.com/ado/2007/06/edmx

They are non-normative for this specification.

In this specification the namespace prefix edmx is used to represent the Entity Data Model for Data Services Packaging namespace, however the prefix name is not prescriptive.

2.2.2 Namespace EDM

Elements and attributes that define the entity model exposed by the OData Service are qualified with the Entity Data Model namespace:

• http://docs.oasis-open.org/odata/ns/edm

Prior versions of CSDL used the following namespaces for EDM:

- CSDL version 1.0: http://schemas.microsoft.com/ado/2006/04/edm
- CSDL version 1.1: http://schemas.microsoft.com/ado/2007/05/edm
- CSDL version 1.2: http://schemas.microsoft.com/ado/2008/01/edm
- CSDL version 2.0: http://schemas.microsoft.com/ado/2008/09/edm
- CSDL version 3.0: http://schemas.microsoft.com/ado/2009/11/edm

They are non-normative for this specification.

In this specification the namespace prefix edm is used to represent the Entity Data Model namespace, however the prefix name is not prescriptive.

2.3 XML Schema Definitions

This specification contains normative XML schemas for the EDMX and EDM namespaces; see OData-EDM and OData-EDM

These XML schemas only define the shape of a well-formed CSDL XML document and are not descriptive enough to define what a correct CSDL XML document MUST be in every imaginable use case. This specification document defines additional rules that correct CSDL XML documents MUST fulfill. In case of doubt on what makes a CSDL XML document correct the rules defined in this specification document take precedence.

2.4 XML Document Order

Client libraries MUST retain the document order of XML elements for CSDL XML documents because for some elements the order of child elements is significant. This includes, but is not limited to, members of enumeration types and items within a collection expression.

OData does not impose any ordering constraints on XML attributes within XML elements.

3 Entity Model

An OData service exposes a single entity model. This model may be distributed over several schemas, and these schemas may be distributed over several documents.

A service is defined by a single CSDL document which can be accessed by sending a GET request to <serviceRoot>/\$metadata. This document is called the metadata document. It MAY reference other CSDL documents.

The metadata document contains a single <u>entity container</u> that defines the resources exposed by this service. This entity container MAY <u>extend</u> an entity container defined in a <u>referenced document</u>.

The *model* of the service consists of all CSDL constructs used in its entity containers.

The *scope* of a CSDL document is the document itself and all schemas <u>included</u> from directly <u>referenced documents</u>. All entity types, complex types and other named model elements *in scope* (that is, defined in the document itself or a schema of a directly referenced document) can be accessed from a referencing document by their qualified names. This includes the <u>built-in primitive</u> and <u>abstract types</u>.

Referencing another document may alter the model defined by the referencing document. For instance, if a referenced document defines an entity type derived from an entity type in the referencing document, then an entity set of the service defined by the referencing document may return entities of the derived type. This is identical to the behavior if the derived type had been defined directly in the referencing document.

Note: referencing documents is not recursive. Only named model elements defined in directly referenced documents can be used within the schema. However, those elements may in turn include or reference model elements defined in schemas referenced by their defining schema.

3.1 Nominal Types

A nominal type has a name that MUST be a <u>simple identifier</u>. Nominal types are referenced using their <u>qualified name</u>. The qualified type name MUST be unique within a model as it facilitates references to the element from other parts of the model.

Names are case-sensitive, but service authors SHOULD NOT choose names that differ only in case.

3.2 Structured Types

Structured types are composed of other model elements. Structured types are common in entity models as the means of representing entities and structured properties in an OData service. <u>Entity types</u> and <u>complex types</u> are both structured types.

Structured Types are composed of zero or more <u>structural properties</u> and <u>navigation properties</u>.

<u>Open entity types</u> and <u>open complex types</u> allow properties to be added dynamically to instances of the open type.

3.3 Primitive Types

Structured types are composed of other structured types and primitive types. OData defines the following primitive types:

Туре	Meaning	
Edm.Binary	Binary data	
Edm.Boolean	Binary-valued logic	

Туре	Meaning		
Edm.Byte	Unsigned 8-bit integer		
Edm.Date	Date without a time-zone offset		
Edm.DateTimeOffset	Date and time with a time-zone offset, no leap seconds		
Edm.Decimal	Numeric values with decimal representation		
Edm.Double	IEEE 754 binary64 floating-point number (15-17 decimal digits)		
Edm.Duration	Signed duration in days, hours, minutes, and (sub)seconds		
Edm.Guid	16-byte (128-bit) unique identifier		
Edm.Int16	Signed 16-bit integer		
Edm.Int32	Signed 32-bit integer		
Edm.Int64	Signed 64-bit integer		
Edm.SByte	Signed 8-bit integer		
Edm.Single	IEEE 754 binary32 floating-point number (6-9 decimal digits)		
Edm.Stream	Binary data stream		
Edm.String	Sequence of characters		
Edm.TimeOfDay	Clock time 00:00-23:59:59.99999999999		
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		

Туре	Meaning		
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		

Edm. Date and Edm. DateTimeOffset follow <u>XML-Schema-2</u> and use the proleptic Gregorian calendar, allowing the year 0000 (equivalent to 1 BCE) and negative years (year -0001 being equivalent to 2 BCE etc.). The supported date range is service-specific and typically depends on the underlying persistency layer, e.g. SQL only supports years 0001 to 9999.

Edm. Decimal with a <u>Scale</u> value of floating, Edm. Double, and Edm. Single allow the special numeric values -INF, INF, and NaN.

Edm. Stream is a primitive type that can be used as a property of an <u>entity type</u> or <u>complex type</u>, the underlying type for a <u>type definition</u>, or the binding parameter or return type of an <u>action</u> or <u>function</u>. Edm. Stream, or a type definition whose underlying type is Edm. Stream, cannot be used in collections or for non-binding parameters to functions or actions.

Some of these types allow facets, defined in section "Type Facets".

See rule primitiveLiteral in [OData-ABNF] for the representation of primitive type values in URLs and [OData-JSON] for the representation in requests and responses.

3.4 Built-In Abstract Types

The following built-in abstract types can be used within a model:

- Edm.PrimitiveType
- Edm.ComplexType
- Edm.EntityType
- Edm.Untyped

Conceptually, these are the abstract base types for primitive types (including type definitions and enumeration types), complex types, entity types, or any type or collection of types, respectively, and can be used anywhere a corresponding concrete type can be used, except:

• Edm.EntityType

- cannot be used as the type of a singleton in an entity container because it doesn't define a structure, which defeats the purpose of a singleton.
- cannot be used as the type of an entity set because all entities in an entity set must have the same key fields to uniquely identify them within the set.
- cannot be the base type of an entity type or complex type.
- Edm.ComplexType
 - cannot be the base type of an entity type or complex type.
- Edm.PrimitiveType
 - cannot be used as the type of a key property of an entity type or as the underlying type of an enumeration type.
 - cannot be used as the underlying type of a type definition in a CSDL document with a version of 4.0.
 - can be used as the underlying type of a type definition in a CSDL document with a version of 4.01 or greater.
- Edm.Untyped
 - cannot be returned in a payload with an OData-Version header of 4.0. Services should treat untyped properties as dynamic properties in 4.0 payloads.
 - cannot be used as the type of a key property of an entity type.
 - cannot be the base type of an entity type or complex type.
 - cannot be used as the underlying type of a type definition or enumeration type.
- Collection(Edm.PrimitiveType)
 - cannot be used as the type of a property or term.
 - cannot be used as the type of a parameter or the return type of an action or function.
- Collection(Edm.Untyped)
 - cannot be returned in a payload with an OData-Version header of 4.0. Services should treat untyped properties as dynamic properties in 4.0 payloads.

3.5 Built-In Types for defining Vocabulary Terms

Vocabulary terms can, in addition, use

- Edm. AnnotationPath
- Edm.PropertyPath
- Edm.NavigationPropertyPath
- Edm. AnyPropertyPath (Edm. PropertyPath Or Edm. NavigationPropertyPath)
- Edm. ModelElementPath (any model element, including Edm. AnnotationPath, Edm. NavigationPropertyPath, and Edm. PropertyPath)

as the type of a primitive term, or the type of a property of a complex type (recursively) that is exclusively used as the type of a term. See section "Path Expressions" for details.

3.6 Annotations

Many parts of the model can be decorated with additional information using <u>annotations</u>. Annotations are identified by their term name and an optional qualifier that allows applying the same term multiple times to the same model element.

nodel element MUST NOT specify more than one annotation for a given combination of term and alifier.	

4 CSDL XML Document

Element edmx: Edmx

The edmx:Edmx element is the root element of a CSDL XML document. It MUST contain the Version attribute and it MUST contain exactly one edmx:DataServices element.

It MAY contain edmx:Reference elements to reference other CSDL documents.

Attribute Version

The Version attribute specifies the OData protocol version of the service. For OData 4.0 responses the value of this attribute MUST be 4.0. For OData 4.01 responses the value of this attribute MUST be 4.01. Services MUST return an OData 4.0 response if the request was made with an OData-MaxVersion header with a value of 4.0.

Element edmx: DataServices

The edmx:DataServices element MUST contain one or more edm:Schema elements which define the schemas exposed by the OData service.

Example 2:

4.1 Reference

A reference to an external CSDL document allows to bring part of the referenced document's content into the scope of the referencing document.

A reference MUST specify a URI that uniquely identifies the referenced document, so two references MUST NOT specify the same URI. The URI SHOULD be a URL that locates the referenced document. If the URI is not dereferencable it SHOULD identify a well-known schema. The URI MAY be absolute or relative URI; relative URLs are relative to the URL of the document containing the reference, or relative to a base URL specified in a format-specific way.

A reference MAY be annotated.

The <u>Core.SchemaVersion</u> annotation, defined in <u>[OData-VocCore]</u>, MAY be used to indicate a particular version of the referenced document. If the <u>Core.SchemaVersion</u> annotation is present, the <u>\$schemaversion</u> system query option, defined <u>[OData-Protocol]</u>, SHOULD be used when retrieving the referenced schema document.

Element edmx:Reference

The edmx:Reference element specifies external CSDL documents referenced by the referencing document. The child elements edmx:Include and edmx:IncludeAnnotations specify which parts of the referenced document are available for use in the referencing document.

The edmx:Reference element MUST contain the Uri attribute, and it MUST contain at least one edmx:Include Or edmx:IncludeAnnotations Child element.

It MAY contain edm:Annotation elements.

Attribute Uri

The value of Uri is an absolute or relative URI; relative URIs are relative to the xml:base attribute, see XML-Base.

Example 3: references to other CSDL documents

4.2 Included Schema

A reference MAY include zero or more schemas from the referenced document.

The included schemas are identified via their <u>namespace</u>. The same namespace MUST NOT be included more than once, even if it is declared in more than one referenced document.

When including a schema, a <u>simple identifier</u> value MAY be specified as an alias for the schema that is used in qualified names instead of the namespace. For example, an alias of display might be assigned to the namespace org.example.vocabularies.display. An alias-qualified name is resolved to a fully qualified name by examining aliases for included schemas and schemas defined within the document.

If an included schema specifies an alias, the alias MAY be used instead of the namespace within qualified names to identify model elements of the included schema. An alias only provides a more convenient notation, allowing a short string to be substituted for a long

namespace. Every model element that can be identified via an alias-qualified name can alternatively be identified via its full namespace-qualified name.

Aliases are document-global, so all schemas defined within or included into a document MUST have different aliases, and aliases MUST differ from the namespaces of all schemas defined within or included into a document.

The alias MUST NOT be one of the reserved values Edm, odata, System, or Transient.

An alias is only valid within the document in which it is declared; a referencing document may define its own aliases for included schemas.

Element edmx: Include

The edmx: Include element specifies a schema to include from the referenced CSDL document. It MUST provide the Namespace attribute and it MAY provide the Alias attribute.

It MAY contain edm:Annotation elements.

Attribute Namespace

The value of Namespace is the namespace of a schema defined in the referenced CSDL document.

Attribute Alias

The value of Alias is a <u>simple identifier</u> that can be used in qualified names instead of the namespace.

Example 4: references to entity models containing definitions of vocabulary terms

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<edmx:Edmx xmlns:edmx="http://docs.oasis-open.org/odata/ns/edmx"</pre>
           Version="4.0">
 <edmx:Reference Uri="http://vocabs.odata.org/capabilities/v1">
    <edmx:Include Namespace="Org.OData.Capabilities.V1" />
 </edmx:Reference>
 <edmx:Reference Uri="http://vocabs.odata.org/core/v1">
    <edmx:Include Namespace="Org.OData.Core.V1" Alias="Core">
      <Annotation Term="Core.DefaultNamespace" />
    </edmx:Include>
 </edmx:Reference>
  <edmx:Reference Uri="http://example.org/display/v1">
    <edmx:Include Alias="UI" Namespace="org.example.display" />
  </edmx:Reference>
  <edmx:DataServices>...</edmx:DataServices>
</edmx:Edmx>
```

4.3 Included Annotations

In addition to including whole schemas with all model constructs defined within that schema, annotations can be included with more flexibility.

Annotations are selectively included by specifying the <u>namespace</u> of the annotations' term. Consumers can opt not to inspect the referenced document if none of the term namespaces is of interest for the consumer.

In addition, the <u>qualifier</u> of annotations to be included MAY be specified. For instance, a service author might want to supply a different set of annotations for various device form factors. If a qualifier is specified, only those annotations from the specified term namespace with the specified qualifier (applied to a model element of the target namespace, if present) SHOULD be included. If no qualifier is specified, all annotations within the referenced document from the specified term namespace (taking into account the target namespace, if present) SHOULD be included.

The qualifier also provides consumers insight about what qualifiers are present in the referenced document. If the consumer is not interested in that particular qualifier, the consumer can opt not to inspect the referenced document.

In addition, the namespace of the annotations' <u>target</u> MAY be specified. If a target namespace is specified, only those annotations which apply a term form the specified term namespace to a model element of the target namespace (with the specified qualifier, if present) SHOULD be included. If no target namespace is specified, all annotations within the referenced document from the specified term namespace (taking into account the qualifier, if present) SHOULD be included.

The target namespace also provides consumers insight about what namespaces are present in the referenced document. If the consumer is not interested in that particular target namespace, the consumer can opt not to inspect the referenced document.

Element edmx: IncludeAnnotations

The edmx: IncludeAnnotations element specifies the annotations to include from the referenced CSDL document. If no edmx:IncludeAnnotations element is specified, a client MAY ignore all annotations in the referenced document that are not explicitly used in an edm:Path expression of the referencing document.

The edmx: IncludeAnnotations element MUST provide the TermNamespace attribute, and it MAY provide the Qualifier and TargetNamespace attribute.

Attribute TermNamespace

The value of TermNamespace is a namespace.

Attribute Qualifier

The value of Qualifier is a simple identifier.

Attribute TargetNamespace

The value of TargetNamespace is a namespace.

Example 5: reference documents that contain annotations

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<edmx:Edmx xmlns:edmx="http://docs.oasis-open.org/odata/ns/edmx"</pre>
```

The following annotations from http://odata.org/ann/b are included:

- Annotations that use a term from the org.example.validation namespace, and
- · Annotations that use a term from the org.example.display namespace and specify a Tablet qualifier and
- Annotations that apply a term from the org.example.hcm namespace to an element of the com.example.Sales namespace and
- Annotations that apply a term from the org.example.hcm namespace to an element of the com.example.Person namespace and specify a Tablet qualifier.

Appendix A. References

This appendix contains the normative and informative references that are used in this document.

While any hyperlinks included in this appendix were valid at the time of publication, OASIS cannot guarantee their long-term validity.

A.1 Normative References

The following documents are referenced in such a way that some or all of their content constitutes requirements of this document.

(Reference sources: For references to IETF RFCs, use the approved citation formats at: https://docs.oasis-open.org/templates/ietf-rfc-list/ietf-rfc-list.html. For references to W3C Recommendations, use the approved citation formats at: https://docs.oasis-open.org/templates/w3c-recommendations-list/w3c-recommendations-list.html. Remove this note before submitting for publication.)

[OData-v4.02]

- *OData Version 4.02*. Edited by Michael Pizzo, Ralf Handl, and Heiko Theißen. A multi-part Work Product that includes:
 - OData Version 4.02 Part 1: Protocol. Latest stage. https://docs.oasis-open.org/odata/odata/v4.02/odata-v4.02-part1-protocol.html
 - OData Version 4.02 Part 2: URL Conventions. Latest stage. https://docs.oasis-open.org/odata/v4.02/odata-v4.02-part2-url-conventions.html

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[OData-ABNF]

OData ABNF Construction Rules Version 4.01. See link in "Additional artifacts" section on cover page.

[OData-CSDL-Schema]

OData CSDL JSON Schema. See link in "Related work" section on cover page.

[OData-CSDLXML]

OData Common Schema Definition Language (CSDL) XML Representation Version 4.01. See link in "Related work" section on cover page.

[OData-JSON]

OData JSON Format Version 4.01. See link in "Related work" section on cover page.

[OData-Protocol]

OData Version 4.01 Part 1: Protocol.
See link in "Related work" section on cover page.

[OData-URL]

OData Version 4.01 Part 2: URL Conventions. See link in "Related work" section on cover page.

[OData-VocCore]

OData Vocabularies Version 4.0: Core Vocabulary. See link in "Related work" section on cover page.

[OData-VocMeasures]

OData Vocabularies Version 4.0: Measures Vocabulary. See link in "Related work" section on cover page.

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Appendix B. Table of XML Elements and Attributes

Element edmx: Edmx

Attribute Version

Element edmx: DataServices

Element edmx:Reference

Attribute Uri

Element edmx: Include

Attribute Namespace

Attribute Alias

Element edmx: IncludeAnnotations

Attribute TermNamespace

Attribute Qualifier

Attribute TargetNamespace

Appendix C. Acknowledgments

Note: A Work Product approved by the TC must include a list of people who participated in the development of the Work Product. This is generally done by collecting the list of names in this appendix. This list shall be initially compiled by the Chair, and any Member of the TC may add or remove their names from the list by request. Remove this note before submitting for publication.

C.1 Special Thanks

Substantial contributions to this document from the following individuals are gratefully acknowledged:

Participant Name, Affiliation or "Individual Member"

C.2 Participants

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

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First Name	Last Name	Company	
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Darren	Anstman	Big Networks	

Appendix D. Revision History

Revision	Date	Editor	Changes Made
specname-v1.0-wd01	yyyy-mm-dd	Editor Name	Initial working draft

Appendix E. Notices

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