

Changes to OData 4.0 CSD02

Changes to Normative Text

Part 1: Protocol

Chapter 10: Replaced "contained navigation property" with "containment navigation property"

This is a typo; the correct term is "containment navigation property".

This editorial change is non-material.

Section 10.17: Removed superfluous dot character

Last sentence of the section contained a dot character in the middle of a sentence. This dot was removed.

This editorial change is non-material.

Section 11.6: Removed superfluous space character

Paragraph 6, Sentence 4 contained two consecutive space characters. One of them was removed.

This editorial change is non-material.

Section 13.1.3, item 11: Changed "the \$batch system query option" to "batch requests"

This was a copy&paste error: \$batch is a resource name, not a query option, and the referenced section 11.7 is correctly named "Batch Requests".

This editorial change is non-material.

Part 2: URL Conventions

Section 4.5.2, fourth bullet item: removed reference to rule boolFunctionExpr in ABNF

This rule has been collapsed into rule functionExpr; the reference is a leftover.

Correcting this typo does not add or remove a feature, so it is a non-material change.

Section 5.1.1.10, changed to bullet list and added period at end of fifth item

The list item numbers get lost in the HTML version of the document, and numbering doesn't add value, so the list format was changed to a bullet list.

Correcting the formatting and the typo does not add or remove a feature, so it is a non-material change.

Part 3: CSDL

Several Sections: Removed superfluous space characters

In several sentences, two consecutive space characters were reduced to one space character.

This editorial change is non-material.

Section 3.5.1: Changed "include" to "edm:IncludeAnnotations" and "namespace" with "TermNamespace"

Using the element and attribute names instead of similar sounding prose phrases is more precise.

Correcting these formulations does not add or remove a feature, so it is a non-material change.

Section 6.2.7: Removed reference to function invocation for DefaultValue attribute

This reference should have been removed when applying [ODATA-449](#).

Correcting this sentence does not add or remove a feature, so it is a non-material change.

Section 7.2: Clarified that a navigation property can have multiple referential constraints

OData supports multi-part keys, so multiple referential constraints can be present. This was already clear from the xsd, but the prose was unclear.

Making this explicit does not add or remove a feature, so it is a non-material change.

Section 7.3: Clarified that a navigation property can have at most one OnDelete element

The on-delete actions are mutually exclusive, so more than one OnDelete element does not make sense. Making this explicit does not add or remove a feature, so it is a non-material change.

Section 13.5.1: Changed “SimpleIdentifier” to “QualifiedName”

This was a typo; the Action attribute is defined as a QualifiedName in section 13.5.2.

Correcting this typo does not add or remove a feature, so it is a non-material change.

Section 13.6.1: Changed “SimpleIdentifier” to “QualifiedName”

This was a typo; the Function attribute is defined as a QualifiedName in section 13.6.2.

Correcting this typo does not add or remove a feature, so it is a non-material change.

Section 14.5: Added edm:AnnotationPath to list of expressions supporting attribute notation

The edm:AnnotationPath is defined in section 14.5.2 as allowing both element and attribute notation. It was forgotten this introductory section.

Correcting the list does not add or remove a feature, so it is a non-material change.

Section 14.5.3.1.2: Clarify that return type of function odata.fillUriTemplate is Edm.String

From the description, it was (implicitly) clear that the return type of the function odata.fillUriTemplate is Edm.String.

Making the return type explicit does not add or remove a feature, so it is a non-material change.

Section 14.5.8.1: Clarified uniqueness of attribute Name

The SimpleIdentifier (as all other simple identifiers in CSDL) is unique within the schema.

Making this explicit does not add or remove a feature, so it is a non-material change.

Section 14.5.9: Changed “SimpleIdentifier” to “QualifiedName”

This was a typo; LabeledElementReference refers to a named element *in scope*, and as per section 3.3 this is consistently done in CSDL with a QualifiedName.

Correcting the description does not add or remove a feature, so it is a non-material change.

Section 14.5.12: Changed “annotations” to “terms”

Fourth paragraph, last sentence: the sentence talks about terms, not annotations.

Correcting the text does not add or remove a feature, so it is a non-material change.

Section 14.5.15: Changed “Url expression” to “UrlRef expression”

This was a typo; the name of the expression is edm:UrlRef. At one place, we corrected “Url expression” to “UrlRef expression”.

Correcting the description does not add or remove a feature, so it is a non-material change.

Atom Format

Section 9.1: Added “or complex type instance” and removed “of an entity”

CSDL sections 9 and 4.4 state that complex types can have stream properties. This was not explicitly stated in the format specification, the text only mentioned entities.

Making the description more explicit does not add or remove a feature, so it is a non-material change.

JSON Format

Section 4.1: Changed “Requests and responses in JSON” to “Requests and responses with a JSON message body”

The old text led to confusion for GET requests and 204 responses that do not have a message body and consequently no Content-Type header.

Rephrasing the sentence does not add or remove a feature, so it is a non-material change.

Chapter 5: Changed “odata.value” to “value”

This was a typo; all top-level collections are represented as a name-value pair with name “value”. Also the accompanying example used the correct name.

Correcting the typo does not add or remove a feature, so it is a non-material change.

Chapter 9: Added “or complex type instance” and changed “entity” to “representation”

CSDL sections 9 and 4.4 state that complex types can have stream properties. This was not explicitly stated in the format specification.

Making the description more explicit does not add or remove a feature, so it is a non-material change.

XML Schema edm.xsd

Removed superfluous <xs:sequence> elements

Several complex types contained an <xs:sequence> element with a single <xs:choice> element. These should have been removed when applying [ODATA-360](#) and [ODATA-361](#).

Simplifying the schema does not add or remove a feature, so it is a non-material change.

Removed attribute IsDefaultEntityContainer from element EntityContainer

The attribute was removed from CSDL with [ODATA-435](#) and should have been removed here, too.

Correcting the schema does not add or remove a feature, so it is a non-material change.

Removed attribute EntitySetPath from element ReturnType

The attribute is defined for the parent elements Action and Function of element ReturnType.

Correcting the schema does not add or remove a feature, so it is a non-material change.

Added attribute UriRef to attribute group GInlineExpressions

The UriRef expression is defined in CSDL to allow element and attribute notation; the attribute notation was missing in the schema definition.

Correcting the schema does not add or remove a feature, so it is a non-material change.

Changed type of body for type T LabeledElementReferenceExpression

This was a typo; LabeledElementReference refers to a named element *in scope*, and as per CSDL section 3.3 this is consistently done in CSDL with a QualifiedName.

Correcting the schema does not add or remove a feature, so it is a non-material change.

Changed list of enumeration values for type TAppliesTo

The enumeration TAppliesTo is a true subset of the list of annotatable CSDL elements defined in CSDL section 14.3 and contained two typos:

- Replaced “Annotations” with “Annotation”. The Annotations element (with trailing “s”) cannot be annotated while the Annotation element (without trailing “s”) can, see CSDL section 14.3.
- Removed “Documentation”. This CSDL element was removed with [ODATA-360](#).
- Added missing values for annotatable CSDL elements that were introduced after introducing the AppliesTo attribute.

Correcting the schema does not add or remove a feature, so it is a non-material change.

EDMX Schema MetadataService.edmx

ComplexType LabeledElementReference: Changed “SimpleIdentifier” to “QualifiedName”

This was a typo; LabeledElementReference refers to a named element *in scope*, and as per CSDL section 3.3 this is consistently done with a QualifiedName.

Correcting this typo does not add or remove a feature, so it is a non-material change.

[odata-abnf-construction-rules.txt](#)

[Removed comments on document status](#)

The "front matter" comments were copied from a working draft template, and the "Status" section did not make sense in this text document.

Removing the comments does not add or remove a feature, so it is a non-material change.

[Extracted rule CollectionNavPath from rule CollectionNavigation](#)

A fragment of rule CollectionNavigation was explicitly named CollectionNavPath to allow easier reference and future extensibility. This does not change the lexical patterns accepted by the grammar.

Extracting the rule does not add or remove a feature, so it is a non-material change.

[Split rule contextFragment into rules context and contextFragment](#)

Separating the alternatives after the # sign simplifies future extensibility. This does not change the lexical patterns accepted by the grammar.

Splitting the rule does not add or remove a feature, so it is a non-material change.

[Corrected rule contextFragment](#)

The grammar did not allow key predicates after navigation segments, which are explicitly required in Part 1, chapter 10.

Correcting the rule does not add or remove a feature, so it is a non-material change.

[odata-abnf-testcases.xml](#)

[Added test case for corrected rule contextFragment](#)

Adding a test case does not add or remove a feature, so it is a non-material change.

[Org.OData.Capabilities.V1.xml](#)

[Changed value of Uri attribute in line 3](#)

The value was a link to the current SVN copy instead of a link to the future publishing location of the committee specification.

Changing the link does not add or remove a feature, so it is a non-material change.

[Org.OData.Measures.V1.xml](#)

[Changed value of Uri attribute in line 3](#)

The value was a link to the current SVN copy instead of a link to the future publishing location of the committee specification.

Changing the link does not add or remove a feature, so it is a non-material change.

[Org.OData.Atom.V1.xml](#)

[Changed value of Uri attribute in line 3](#)

The value was a link to the current SVN copy instead of a link to the future publishing location of the committee specification.

Changing the link does not add or remove a feature, so it is a non-material change.

Changes to Non-Normative Examples

Examples are explicitly called out as non-normative in the last section of chapter 1 in each document.

Changing the non-normative examples does not add or remove a feature and constitutes an error correction, so it is a non-material change.

Part 1: Protocol

Section 11.5.2, Example 71: Corrected two typos

Changed “#SampleEntities.MostRecent” to “#SampleEntities.MostRecentOrder” and “MostRecentOrder” to “MostRecentOrder()”. Now the example is consistent and correct.

Section 11.5.3.1.1, Example 72: Deleted “this request”

This was a meaningless text fragment.

Section 11.5.3.1.1, Example 74: Deleted “Sales.” and clarified description

“Sales.” was a typo in the URL, and the example description was misleading.

Part 2: URL Conventions

Section 4.4, Example 25: Changed “Products('Bread')” to “Products(0)”

This example was inconsistent with the other examples in the document.

Section 4.4, Example 36: Added Sample Response

The example for a cross-join request lacked a response.

Part 3: CSDL

Section 7.2, Example 10: Removed OnDelete element

The OnDelete element should have been removed when applying [ODATA-411](#).

Section 7.3: Added Example (now 11) for OnDelete element

This example should have been added when applying [ODATA-411](#).

Section 13, Example 28: Changed “Function” to “Action” and added space characters

This was a typo; the attribute is named “Action” and not “Function”, see section 13.5.2.

Section 14.5.1: Removed superfluous space

The closing </Ge> element in the example for the <edm:Ge> expression contained a superfluous space character.

Section 14.5.9, Example 60: Changed “DisplayName” to “Model.CustomerFirstName”

This was a typo; the example is now consistent with example 59.

Section 16.1, Example 84: Removed attribute IsDefaultEntityContainer

The attribute should have been removed when applying [ODATA-435](#).

Section 16.1, Example 84: Added edmx:Reference element

The reference to the Core vocabulary was missing, adding it made the example correct.

Section 16.1, Example 84: Changed value of Uri attribute

The value was a link to the current SVN copy instead of a link to the future publishing location of the committee specification.

Section 16.2, Example 85: Changed “Self” to “Vocabulary1”

This was a typo.

Atom Format

Section 6, Example 5: Added xmlns:data

The namespace prefix was used and not declared in the example.

Section 7.1, Example 8: Changed “Double” to “Single”

This was a copy&paste error.

Section 8.4, Example 22: Added ellipsis to indicate omitted namespace declarations

This makes the intentional incompleteness of the example more explicit.

[Chapter 10, Example 26: Added ellipsis to indicate omitted namespace declarations](#)

This makes the intentional incompleteness of the example more explicit.

[Section 18.2.1, Example 44: Added ellipsis to indicate omitted namespace declarations](#)

This makes the intentional incompleteness of the example more explicit.

[Section 14, Example 37: Corrected one typo](#)

Corrected a metadata:context URL (changed Orders to Customers).

[Section 15.1.1, Example 40: Added missing parameter to function](#)

This was a typo.

JSON Format

[Several Examples: Replaced curly double quotes with straight double quotes](#)

In several examples the double quotes delimiting names and values were typographic curly quotes instead of the syntactically correct straight double quotes (").

[Section 6, Examples 9 and 10: Removed erroneous comma](#)

The last name-value pair was followed by a comma, which is syntactically incorrect.

[Section 7.1, Example 11: Removed erroneous double quotes](#)

Two numeric values were quoted in the example, but are specified to be unquoted in the preceding normative text.

[Section 7.2, Example 12: Removed erroneous comma](#)

The last name-value pair was followed by a comma, which is syntactically incorrect.

[Chapter 12, Example 27: Removed erroneous comma](#)

The last name-value pair was followed by a comma, which is syntactically incorrect.

[Chapter 13, Example 28: Corrected two typos](#)

The context URL still contained the suffix “/§entity” that was removed with [ODATA-439](#).

[Chapter 13, Example 29: Corrected three typos](#)

The context URL was missing the “Collection(…)” introduced with [ODATA-439](#), and the odata.id values were missing the closing parentheses.

[Chapter 15, Example 30: Corrected two typos](#)

Remove a blank in the first odata.context URL and corrected a context URL (changed Orders to Customers)

[Chapter 15, Example 32: Added missing parameter to function](#)

This was a typo.

Unchanged Documents

- XML Schema edmx.xsd
- XML Schema metadata.xsd
- Org.OData.Core.V1.xml