

Differences between SDMX v2.0 standard and Eurostat SDMX Registry XSDs

SDMXCommon.XSD

1. Changed pattern restriction of IDType in order to include the characters "/" and "=", thus being compatible with GESMES Codes (see also document "SDMX_2_0 SECTION_06_ImplementorsGuide" page 22).

XPath:

```
/xs:schema/xs:simpleType[5]/xs:restriction[1]/xs:pattern[1]
```

or:

```
/xs:schema/xs:simpleType[@name='IDType']/xs:restriction/xs:pattern
```

Before: `<xs:pattern value="([A-Z]|[a-z]|*|@|[0-9]|_!$|\\-)*"/>`

After: `<xs:pattern value="([A-Z]|[a-z]|*|@|[0-9]|_!$|\\-|/|=)*"/>`

SDMXGenericMetadata.XSD

1. Added "TimeDimension" as an item in the Object ID enumeration, in order to be able to reference time in a Reference Metadataset.

XPath:

```
/xs:schema/xs:simpleType[1]/xs:restriction[1]/xs:enumeration[47]
```

or:

```
/xs:schema/xs:simpleType[@name='ObjectIDType']/xs:restriction/xs:enumeration[@value='TimeDimension']
```

Added:

```
<xs:enumeration value="TimeDimension">
  <xs:annotation>
    <xs:documentation>Time Dimension</xs:documentation>
  </xs:annotation>
</xs:enumeration>
```

SDMXRegistry.XSD

1. Added the attribute "returnDetails" in element "QueryStructureRequest" (i.e. the `<xs:attribute>` "returnDetails" in `<xs:complexType>` "QueryStructureRequestType"). This attribute instructs the SDMX Registry WS whether it will return details of an artefact or just the reference information (i.e. if it will include the Codes when requesting for Codelists, or just the Codelist ID, AgencyId, version, etc). This facilitates the GUI in getting lists of available structures (i.e. all available Codelists, DSDs) faster. If omitted, the default behaviour is implied.

XPath:

```
/xs:schema/xs:complexType[10]/xs:attribute[2]
```

or:

```
/xs:schema/xs:complexType[@name='QueryStructureRequestType']/xs:attribute[@name='returnDetails']
```

Added:

```
<xs:attribute name="returnDetails" type="xs:boolean" use="optional"
default="true"/>
```

2. Added the element “OrganisationSchemeVersion” in element “DataProviderRef” of the SDMX Registry Interface messages (i.e. <xs:element> “OrganisationSchemeVersion” under <xs:complexType> “DataProviderRefType”), since it was not possible to identify uniquely the referenced Organisation Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[40]/xs:sequence[1]/xs:element[4]
```

or:

```
/xs:schema/xs:complexType[@name='DataProviderRefType']/xs:sequence[1]/xs:element
[@name='OrganisationSchemeVersion']
```

Added:

```
<xs:element name="OrganisationSchemeVersion" type="xs:string" minOccurs="0" />
```

SDMXStructure.XSD

1. Added the element “coreRepresentationVersion” in element “Concept” (i.e. <xs:element> “coreRepresentationVersion” under <xs:complexType> “ConceptType”), since it was not possible to identify uniquely the referenced Codelist without the version information.

XPath:

```
/xs:schema/xs:complexType[29]/xs:attribute[9]
```

or:

```
/xs:schema/xs:complexType[@name='ConceptType']/xs:attribute[@name='coreRepresent
ationVersion']
```

Added:

```
<xs:attribute name="coreRepresentationVersion" type="xs:string" use="optional"/>
```

2. Added “TimeDimension” as an item in the Object ID enumeration (see also #1 in SDMXGenericMetadata.XSD)

XPath:

```
/xs:schema/xs:simpleType[1]/xs:restriction[1]/xs:enumeration[47]
```

or:

```
/xs:schema/xs:simpleType[@name='ObjectIDType']/xs:restriction[1]/xs:enumeration[@value='TimeDimension']
```

Added:

```
<xs:enumeration value="TimeDimension">
  <xs:annotation>
    <xs:documentation>Time Dimension</xs:documentation>
  </xs:annotation>
</xs:enumeration>
```

3. Added the attribute “representationSchemeVersion” in element “RepresentationScheme” (i.e. <xs:attribute> “representationSchemeVersion” under <xs:complexType> “RepresentationSchemeType”), since it was not possible to identify uniquely the referenced Codelist without the version information.

XPath:

```
/xs:schema/xs:complexType[37]/xs:attribute[3]
```

or:

```
/xs:schema/xs:complexType[@name='RepresentationSchemeType']/xs:attribute[@name='representationSchemeVersion']
```

Added:

```
<xs:attribute name="representationSchemeVersion" type="xs:string"
use="required"/>
```

4. Added the attribute “conceptSchemeVersion” in element “MetadataAttribute” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “MetadataAttributeType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[39]/xs:attribute[8]
```

or:

```
/xs:schema/xs:complexType[@name='MetadataAttributeType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```

5. Added the attribute “representationSchemeVersion” in element “MetadataAttribute” (i.e. <xs:attribute> “representationSchemeVersion” under <xs:complexType> “MetadataAttributeType”), since it was not possible to identify uniquely the referenced Codelist without the version information.

XPath:

```
/xs:schema/xs:complexType[39]/xs:attribute[8]
```

or:

```
/xs:schema/xs:complexType[@name='MetadataAttributeType']/xs:attribute[@name='representationSchemeVersion']
```

Added:

```
<xs:attribute name="representationSchemeVersion" type="xs:string"
use="required"/>
```

6. Changed field used for checking DSD Components uniqueness.

XPath:

```
/xs:schema/xs:complexType[42]/xs:sequence[1]/xs:element[3]/xs:unique[1]/xs:field[1]
```

or:

```
/xs:schema/xs:complexType[@name='KeyFamilyType']/xs:sequence[1]/xs:element[@name='Components']/xs:unique[@name='SDMX_KeyFamilyComponentUniqueness']/xs:field[1]
```

Before: <xs:field xpath="@concept"/>

After: <xs:field xpath="@conceptRef"/>

7. Added the attribute “conceptSchemeVersion” in element “Dimension” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “DimensionType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[44]/xs:attribute[6]
```

or:

```
/xs:schema/xs:complexType[@name='DimensionType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```

8. Added the attribute “conceptSchemeVersion” in element “TimeDimension” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “TimeDimensionType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[45]/xs:attribute[6]
```

or:

```
/xs:schema/xs:complexType[@name='TimeDimensionType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```

9. Added the attribute “conceptSchemeVersion” in element “Attribute” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “AttributeType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[50]/xs:attribute[6]
```

or:

```
/xs:schema/xs:complexType[@name='AttributeType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```

10. Added the attribute “conceptSchemeVersion” in element “PrimaryMeasure” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “PrimaryMeasureType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[51]/xs:attribute[6]
```

or:

```
/xs:schema/xs:complexType[@name='PrimaryMeasureType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```

11. Added the attribute “conceptSchemeVersion” in element “CrossSectionalMeasure” (i.e. <xs:attribute> “conceptSchemeVersion” under <xs:complexType> “CrossSectionalMeasureType”), since it was not possible to identify uniquely the referenced Concept Scheme without the version information.

XPath:

```
/xs:schema/xs:complexType[52]/xs:attribute[6]
```

or:

```
/xs:schema/xs:complexType[@name='CrossSectionalMeasureType']/xs:attribute[@name='conceptSchemeVersion']
```

Added:

```
<xs:attribute name="conceptSchemeVersion" type="xs:string" use="optional"/>
```