



Association EDI-Optique

**OPTO v11 Optic Catalogue
Implementation Guide
ebXML Document Optimization**

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1. Preamble and objective

This document is part of the OPTO v11 Optic Catalogue documentation set. It is not the purpose of this document to provide the reader with a complete understanding of the implementation of the OPTO v11 Optic Catalogue.

This document aims to assist implementers of OPTO v11 ebXML Optic Catalogue in process of optimizing the size of their ebXML documents.

Please note that all optimization methods are cumulative.

2. References

- OPTO v11 Optic Catalogue – Read me
- OPTO v11 Optic Catalogue – Understanding the ebXML Strategy
- OPTO v11 Optic Catalogue – Business Requirements Specification
- OPTO v11 Optic Catalogue – Requirements Specification Mapping
- OPTO v11 Optic Catalogue – Data dictionary

The following XML schema and XML documents are also used for reference:

- CatalogueManifest_1p1p1.xsd
- OpticReusableAggregateBusinessInformationEntity_1p1p1.xsd
- OpticClassifications_v1.0r11.xsd
- OpticQualifiedDataType_1p1p0.xsd
- Optic_CharacteristicTypeCode_1p0.xsd
- Optic_PriceCode_1p1.xsd
- Optic_ActionCode_1p1.xsd
- Optic_RangeCode_1p1.xsd
- Optic_RelationCode_1p1.xsd
- Optic_StatusCode_1p1.xsd
- Optic_StatusCode_1p1.xsd
- Optic_DocumentTypeCode_1p1.xsd
- OpticPartyIdentificationCode-1.1.gc

Additional implementation guides are available for specific product implementation:

- Implementation guide – classification
- OPTO v11 Optic Catalogue – Implementation guide for lens
- OPTO v11 Optic Catalogue – Implementation guide for frame and shape
- OPTO v11 Optic Catalogue – Implementation guide for contact lenses and care products
- OPTO v11 Optic Catalogue – Implementation guide for accessories
- OPTO v11 Optic Catalogue – Implementation guide for pack

3. Document weight optimization methods

3.1. Use of a default Namespace

A typical example of ebXML catalogue is as follows:

```
<?xml version="1.0"?>
<ocm:CatalogueManifest
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1"
  xmlns:oram="urn:edi:optique:data:standard:OpticReusableAggregateBusinessInformationEntity:1"
  xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
  optique.org/standard/edioptric/data/standard/CatalogueManifest_1p1p1.xsd">
  <ocm:CatalogueManifestDocument>
    <oram:TestIndicator>>false</oram:TestIndicator>
    <oram:Description>CATALOGUE STD 20101226</oram:Description>
    <oram:VersionID>20110926</oram:VersionID>
    <oram:ReleaseID>004</oram:ReleaseID>
    <oram:ProviderOpticParty>
      <oram:ID schemeID="ZZY">XY</oram:ID>
      <oram:Name>X+Y</oram:Name>
      <oram:PostalCITradeAddress>
        <oram:CountryID>FR</oram:CountryID>
      </oram:PostalCITradeAddress>
    </oram:ProviderOpticParty>
    <oram:PrimaryCode>EUR</oram:PrimaryCode>
  </ocm:CatalogueManifestDocument>
```

The repetition of the namespace on every single tag cost an increase of 10% of the size of the ebXML document. The following header authorizes to skip repetition of the “oram” namespaces (change highlighted in yellow):

```
<ocm:CatalogueManifest
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1"
  xmlns="urn:edi:optique:data:standard:OpticReusableAggregateBusinessInformationEntity:1"
  xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
  optique.org/standard/edioptric/data/standard/CatalogueManifest_1p1p1.xsd">
```

The above example becomes:

```
<?xml version="1.0"?>
<ocm:CatalogueManifest
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1"
  xmlns="urn:edi:optique:data:standard:OpticReusableAggregateBusinessInformationEntity:1"
  xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
  optique.org/standard/edioptric/data/standard/CatalogueManifest_1p1p1.xsd">
  <ocm:CatalogueManifestDocument>
    <TestIndicator>>false</TestIndicator>
    <Description>CATALOGUE STD 20101226</Description>
    <VersionID>20110926</VersionID>
    <ReleaseID>004</ReleaseID>
    <ProviderOpticParty>
      <ID schemeID="ZZY">XY</ID>
      <Name>X+Y</Name>
      <PostalCITradeAddress>
        <CountryID>FR</CountryID>
      </PostalCITradeAddress>
    </ProviderOpticParty>
    <PrimaryCode>EUR</PrimaryCode>
  </ocm:CatalogueManifestDocument>
```

Please note that indications of the ocm namespace remain.

3.2. Optimization of Characteristics

3.2.1. Simplifying ClassCode attributes in classification pointers

Classification pointers contain multiple attributes:

```
<oram:ClassCode
listSchemeURI="http://www.edi-
optique.org/standard/edioptric/data/standard/OpticClassifications_v1.0r06.xsd"
listURI="http://www.edi-
optique.org/standard/edioptric/codelist/standard/OpticClassifications_v1.0r11.xml"
listAgencyName="Association EDI Optique" listName="OpticClassifications"
listVersionID="1.0r11">FrameClass</oram:ClassCode>
```

Attributes ListSchemeURI, ListAgencyName, ListVersionID are optional. However they are useful to help debug. The optimization consists in skipping the highlighted yellow part of the above example which becomes:

```
<oram:ClassCode
listURI="http://www.edi-
optique.org/standard/edioptric/codelist/standard/OpticClassifications_v1.0r11.xml"
>FrameClass</oram:ClassCode>
```

3.2.2. Defining a default classification URI for an entire product catalogue

The list URI attribute of a classification pointer is conditional. It must be completed unless a default classification list URI is set for the entire catalogue. Such a default pointer can be defined in the schemeDataURI attribute of the catalogue ID (/ocm:CatalogueManifest /ocm:OpticCatalogue /oram:ID).

For example, if the catalogue ID is set as follows:

```
<ID>100</ID>
```

Then, the List URI attribute must be completed in the following ClassCode:

```
<oram:ClassCode
listURI="http://www.edi-
optique.org/standard/edioptric/codelist/standard/OpticClassifications_v1.0r11.xml"
>FrameClass</oram:ClassCode>
```

However example, if the catalogue ID is set as follows:

```
<ID schemeDataURI="http://www.edi-
optique.org/standard/edioptric/codelist/standard/OpticClassifications_v1.0r11.xml">100</ID>
```

Then, the following ClassCode is valid:

```
<oram:ClassCode>FrameClass</oram:ClassCode>
```

3.2.3. Skipping classification pointers for property characteristics

Classification pointers for properties allow to reference allow the document reader to immediately identify the class a property characteristic is related to. However, this indicator is optional. The repetition of the pointer on every single property characteristic cost an increase of 30% of the size of the ebXML document.

A typical example of property characteristic is as follows:

```
<oram:ApplicableOpticProductCharacteristic>
  <oram:ID>478</oram:ID>
  <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
  <oram:Description languageID="FR">Main material code</oram:Description>
  <oram:ValueCode languageID="FR">Z</oram:ValueCode>
  <oram:RelatedOpticProductClassification>
```

```

    <oram:ClassCode listURI="http://www.edi-
    optique.org/standard/edioptic/codelist/standard/OpticClassifications_v1.0r11.xml"
    listAgencyName="Association EDI Optique" listName="OpticClassifications" listVersionID="1.0r11"
    listSchemeURI="http://www.edi-
    optique.org/standard/edioptic/data/standard/OpticClassifications_v1.0r06.xsd" />
    <oram:SubClassCode>LensMaterialClass</oram:SubClassCode>
  </oram:RelatedOpticProductClassification>
</oram:ApplicableOpticProductCharacteristic>

```

The optimization consists in skipping the highlighted yellow part of the above example which becomes:

```

<oram:ApplicableOpticProductCharacteristic>
  <oram:ID>478</oram:ID>
  <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
  <oram:Description languageID="FR">Main material code</oram:Description>
  <oram:ValueCode languageID="FR">Z</oram:ValueCode>
</oram:ApplicableOpticProductCharacteristic>

```

3.2.4. Shortening characteristics descriptions

Characteristics are self-descriptive. The type and the description are optional. However they are very useful for debugging purposes. In mass production, it is advised to skip the type and description which cost an average increase of 7% of the size of the ebXML document.

A typical example of property characteristic is as follows:

```

<oram:ApplicableOpticProductCharacteristic>
  <oram:ID>478</oram:ID>
  <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
  <oram:Description languageID="FR">Main material code</oram:Description>
  <oram:ValueCode languageID="FR">Z</oram:ValueCode>
  <oram:RelatedOpticProductClassification>
    <oram:ClassCode listURI="http://www.edi-
    optique.org/standard/edioptic/codelist/standard/OpticClassifications_v1.0r11.xml"
    listAgencyName="Association EDI Optique" listName="OpticClassifications" listVersionID="1.0r11"
    listSchemeURI="http://www.edi-
    optique.org/standard/edioptic/data/standard/OpticClassifications_v1.0r06.xsd" />
    <oram:SubClassCode>LensMaterialClass</oram:SubClassCode>
  </oram:RelatedOpticProductClassification>
</oram:ApplicableOpticProductCharacteristic>

```

The optimization consists in skipping the highlighted yellow part of the above example which becomes:

```

<oram:ApplicableOpticProductCharacteristic>
  <oram:ID>478</oram:ID>
  <oram:ValueCode languageID="FR">Z</oram:ValueCode>
  <oram:RelatedOpticProductClassification>
    <oram:ClassCode listURI="http://www.edi-
    optique.org/standard/edioptic/codelist/standard/OpticClassifications_v1.0r11.xml"
    listAgencyName="Association EDI Optique" listName="OpticClassifications" listVersionID="1.0r11"
    listSchemeURI="http://www.edi-
    optique.org/standard/edioptic/data/standard/OpticClassifications_v1.0r06.xsd" />
    <oram:SubClassCode>LensMaterialClass</oram:SubClassCode>
  </oram:RelatedOpticProductClassification>
</oram:ApplicableOpticProductCharacteristic>

```


3.2.5. Removing unitCode attribute for ValueMeasure

Measureable characteristics have an optional unit code attribute. Removing this attribute reduces by about 0.5% the overall size of a catalogue.

A typical example of a measureable characteristic value is:

```
<oram:ValueMeasure unitCode="MMT">44</oram:ValueMeasure>
```

The optimization consists in skipping the highlighted yellow part of the above example which becomes:

```
<oram:ValueMeasure>44</oram:ValueMeasure>
```

3.3. Removal of pretty printing

In order to make xml documents, they are most of the time presented in a “pretty printing” mode.

This is an example:

```
<?xml version="1.0"?>
<ocm:CatalogueManifest
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1"
  xmlns="urn:edi:optique:data:standard:OpticReusableAggregateBusinessInformationEntity:1"
  xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
  optique.org/standard/edioptric/data/standard/CatalogueManifest_1p1p1.xsd">
  <ocm:CatalogueManifestDocument>
    <TestIndicator>false</TestIndicator>
    <Description>CATALOGUE STD 20101226</Description>
    <VersionID>20110926</VersionID>
    <ReleaseID>004</ReleaseID>
    <ProviderOpticParty>
      <ID schemeID="ZZY">XY</ID>
      <Name>X+Y</Name>
      <PostalCITradeAddress>
        <CountryID>FR</CountryID>
      </PostalCITradeAddress>
    </ProviderOpticParty>
    <PrimaryCode>EUR</PrimaryCode>
  </ocm:CatalogueManifestDocument>
```

The optimization consists in removing tabulations, presentation spaces, line feeds and carriage returns.

The above example is optimized as follows:

```
<?xml version="1.0"?><ocm:CatalogueManifest xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1" xmlns="urn:edi:optique:
data:standard:OpticReusableAggregateBusinessInformationEntity:1" xsi:schemaLocation="urn:edi:
optique:data:standard:CatalogueManifest:1 http://www.edi-optique.org/standard/edioptric/data/stan
dard/CatalogueManifest_1p1p1.xsd"><ocm:CatalogueManifestDocument><TestIndicator>false</TestIndi
cator><Description>CATALOGUE STD 20101226</Description><VersionID>20110926</VersionID><Releas
eID>004</ReleaseID><ProviderOpticParty><ID schemeID="ZZY">XY</ID><Name>X+Y</Name><PostalCITr
adeAddress><CountryID>FR</CountryID></PostalCITradeAddress></ProviderOpticParty><PrimaryCode>EU
R</PrimaryCode></ocm:CatalogueManifestDocument>
```