



Association Normeyes

## **OPTO v11 Optic Catalogue IMPLEMENTATION GUIDE FOR PACK**

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## 1. Preamble

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

## 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\_1p1p0.xsd
- OpticReusableAggregateBusinessInformationEntity\_0p1p1.xsd
- OpticClassifications\_v1.0r06.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 – common parts
- 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 lens and care product
- OPTO v11 Optic Catalogue – Implementation guide for accessories

### 3. Objective

This document aims to assist various stakeholders in the distribution chain of the catalogue to implement the OPTO v11 ebXML Optic Catalogue process.

The guide includes several sections:

- Chapter 4 details the content of all elements included the Catalogue Item element for a pack of products. For each XML element and sub-element, possible values and attributes are defined. For each item, mapping to the data dictionary data number is provided. Note that implementation rules are also detailed and illustrated by samples. To facilitate the comprehension of the reader, elements are described in the exact same order used in the Business Requirement Specification.
- Chapter 5 explains to the reader how to build or read and OPTO v11 ebXML Optic Catalogue of pack of products.

This implementation guide is subject to evolutions. It shall be considered as the repository of any information useful to a successfully implement the OPTO v11 ebXML Optic Catalogue process.

## 4. OPTO v11 Optic Catalogue components for packs of products

### 4.1. Contained Optic Catalogue Item (Optic Catalogue)

Mandatory Element (1..n)

#### 4.1.1. Identifier

Data Number = NOT IN DICTIONNARY

Mandatory Element

Description: The unique identifier for this optic catalogue item.

Data Type: ID (item sequence number in auto increment)

This identifier must be unique across all product types within the catalogue.

Example:

```
<oram:ID>000012345</oram:ID>
```

#### 4.1.2. Action code

Data Number = #622

Mandatory Data

Description: The code specifying the action for this optic catalogue item.

Data Type: Action Code

List of values:

- 1 : new, modified
- 2 : deleted

Example

```
<oram:ActionCode>1</oram:ActionCode>
```

Note:

- The **ActionCode** and the **LastChangedDateTime** are the two key information used to comply with the catalogue update mechanism used by the OPTO v11 Optic Catalogue process. To understand the use of this mechanism, please refer to the OPTO v11 Optic Catalogue – Implementation guide – common parts (chapter 6.4).

#### 4.1.3. Validity Delimited Period

Data Number = #624 - #625

Optional Element

Description: A period when this optic catalogue item is valid.

Data Type: Period

Example:

```
<oram:ValidityDelimitedPeriod>
  <oram:StartDateTime>2001-12-17T00:00:00Z</oram:StartDateTime>
  <oram:EndDateTime>2001-12-17T00:00:00Z</oram:EndDateTime>
</oram:ValidityDelimitedPeriod>
```

This period of validity includes both the first and the last day.

#### 4.1.4. Last Changed Date Time

**Data Number = #623**

**Mandatory Data**

Description: The date and time of the last change performed on the optic catalogue item.

Data Type: Date Time

Example:

```
<oram:LastChangedDateTime>2009-12-17T09:30:47Z</oram:LastChangedDateTime>
```

#### 4.1.5. Additional Information

**Data Number: #629 - #630 - #631**

**Optional Data (0..n)**

Description: Additional information about the catalogue item (e.g. URL of a relevant web page).

Data Type: String

Example:

```
<oram:AdditionalInformation languageID="en">http://site.com/catalogue/Item/000012345.html</oram:AdditionalInformation>
```

## 4.2. Applicable Optic Trade Agreement (Optic Catalogue Item) (0..1)

### Mandatory Element

Description: The applicable optic trade agreement for this optic catalogue item.

Example:

```
<oram:ApplicableOpticTradeAgreement>
...
</oram:ApplicableOpticTradeAgreement>
```

### 4.2.1. Product Ordering Delimited Period (0..1)

Data Number = #414

### Optional Data

Description: Time limit for consideration of orders by fax and telephone.

Data Type: Period

Example:

```
<oram:ProductOrderingDelimitedPeriod>
  <oram:EndTime>0000-00-00T19:30:00Z</oram:EndTime>
</oram:ProductOrderingDelimitedPeriod>
```

### 4.2.2. Orderable indicator

Data Number: #898

### Optional Data

Description: The indicator identifying that the catalogue item may be ordered

Data Type: Indicator

List of values:

- **false**: can't be ordered
- **true**: can be ordered

Example:

```
<oram:OrderableIndicator>>false</oram:OrderableIndicator>
```

### 4.2.3. Specified Optic Price Information (Optic Trade agreement)

### Mandatory Element

Description: Prices corresponding to the optic trade agreement.

Example:

```
<oram:SpecifiedOpticPriceInformation>
...
</oram:SpecifiedOpticPriceInformation>
```

#### 4.2.3.1. Specified Optic Price Reference (Optic Price information)

Description: Code and name associated to a specified tariff.

### Optional Element (0..\*)

Example:

```

<oram:SpecifiedOpticPriceReference>
...
<oram:SpecifiedOpticPriceReference>

<PriceListReference>
  <PriceListID>SpecialTariffCode</PriceListID>
  <PriceListName languageID="FR">SpecialTariffName</PriceListName>
</PriceListReference>

```

#### 4.2.3.1.1. Identifier

**Data Number: #660**

##### **Mandatory Data**

Description: The identifier of the Price List

Data Type: Identifier

Example:

```
<oram:ID>SpecialTariffCode</oram:ID>
```

#### 4.2.3.1.2. Name

**Data Number: #661**

##### **Mandatory Data**

Description: Name of the Price List

Data Type: String

Example:

```
<oram:Name languageID="FR">SpecialTariffName</oram:Name>
```

#### 4.2.3.2. Assigned Optic Price

##### **Mandatory Data (1..n)**

Description: A price amount for the catalogue item

Data Type: OpticPrice

Example:

```

<oram:AssignedOpticPrice>
...
</oram:AssignedOpticPrice>

```

#### 4.2.3.2.1. Charge Amount

**Data Number:**

- **#886 : Mandatory Data**
- **#888: Optional Data**
- **#890: Optional Data**
- **#892: Optional Data**
- **#894: Optional Data**

Description: The amount of basic price.

Data Type: Amount

Example:

```
<oram:ChargeAmount>312.30</oram:ChargeAmount>
```

#### 4.2.3.2.2. Type Code

Data Number:

- **#887: Mandatory Data**
- **#889: Optional Data**
- **#891: Optional Data**
- **#893: Optional Data**
- **#895: Optional Data**

Description: The code specifying the type of basic price.

Data Type: Price Code

List of values:

- **AAA:** purchase price according to standard price list, VAT excluded (**#887**)
- **AAB:** net purchase price, no end of period back payment and VAT excluded
- **AAC:** net purchase price, VAT excluded
- **AAD:** recommended selling price, VAT included
- **AAE:** minimum recommended selling price, VAT included
- **AAF:** maximum recommended selling price, VAT included
- **AAG:** recommended selling price incl. insurance, VAT included

Example:

```
<oram:TypeCode>AAA</oram:TypeCode>
```

#### 4.2.3.3. Validity Delimited Period

Data Number = #959 - #960

Optional Element

Description: A period when this optic price information is valid.

Data Type: Period

Example:

```
<oram:ValidityDelimitedPeriod>
  <oram:StartDateTime>2001-12-17T00:00:00Z</oram:StartDateTime>
  <oram:EndDateTime>2002-12-17T00:00:00Z</oram:EndDateTime>
</oram:ValidityDelimitedPeriod>
```

This period of validity includes both the first and the last day.

#### 4.2.3.4. Applicable Optic Product Characteristic (Optic Price Information)

Optional Element

Example:

```
<oram:ApplicableOpticProductCharacteristic>
  ...
</oram:ApplicableOpticProductCharacteristic>
```

**Please consult the OPTO v11 Optic Catalogue – Implementation guide – common parts for detailed explanation on how to use characteristics.**

Please find below the list of characteristics for the PriceInformation class:

#### PriceInformation Property

##### PriceInformationClass

No specific characteristic

#### 4.2.4. Action code

**Data Number = #622**

##### Mandatory Data

Description: The code specifying the action for this optic trade agreement.

Data Type: Action Code

List of values:

- **1** : new, modified
- **2** : deleted

Example

```
<oram:ActionCode>1</oram:ActionCode>
```

##### Note:

- The **ActionCode** and the **LastChangedDateTime** are the two key information used to comply with the catalogue update mechanism used by the OPTO v11 Optic Catalogue process. To understand the use of this mechanism, please refer to the OPTO v11 Optic Catalogue – Implementation guide – common parts (chapter 6.4).

#### 4.2.5. Last Changed Date Time

**Data Number = #623**

##### Mandatory Data

Description: The date and time of the last change performed on the optic catalogue item trade agreement.

Data Type: Date Time

Example:

```
<oram:LastChangedDateTime>2009-12-17T09:30:47Z</oram:LastChangedDateTime>
```

### 4.3. Referenced Optic Product (Optic Catalogue Item)

#### Mandatory Data

Description: The optic product corresponding to the optic catalogue item.

Example:

```
<oram:ReferencedOpticProduct>
...
</oram:ReferencedOpticProduct>
```

#### 4.3.1. Specified Optic Product Identification (Optic Product)

Description: A collection of identifier for this optic product.

Each product type can be characterized by several identifiers (manufacturer, ordering, and distributor product codes):

- **MF** : Manufacturer product code **Mandatory Data**  
**Data Number: #615**
- **SA** : Supplier Ordering product code **Mandatory Data**  
**Data Number: #616**
- **VP** : Distributors product code **Optional Data**  
**Data Number: #617**

Example:

```
<oram:SpecifiedOpticProductIdentification>
  <oram:ID schemeID="MF">123</oram:ID>
</oram:SpecifiedOpticProductIdentification>
```

Notes:

- The Normeyes Association recommends using a unique id for each product.

#### 4.3.2. Name

**Data Number = #617**

#### Mandatory Data (1..\*)

Description: Name of product which distinguishes it from other products and if necessary to be used in trade messages such as order and invoice.

Data Type: String

Product names in multiple languages are supported.

Example:

```
<oram:Name languageID="en">Name of Product</oram:Name>
```

#### 4.3.3. Multipack Optic Hierarchy Information (Optic Product)

#### Optional Element

Description: Lists of products forming part of the combination or package of products.

Example:

```
<oram:MultiPackOpticHierarchyInformation>
  <oram:NextOpticLowerProductLevelInformation>
    ...
  </oram:NextOpticLowerProductLevelInformation>
  <oram:NextOpticLowerProductLevelInformation>
```

```

...
</oram:NextOpticLowerProductLevelInformation>
</oram:MultiPackOpticHierarchyInformation>

```

#### 4.3.3.1. Next Optic Lower Product Level Information (Optic Hierarchy Information)

##### Mandatory Data (1..n)

Description: This section lists products that form part of the pack of products. Each product is identified by its manufacturer part number and the ID of the catalogue where it is defined. The quantity of each product within the pack can be specified as well.

Example:

```

<oram:NextOpticLowerProductLevelInformation>
  <oram:ID schemeID="MF">123</oram:ID>
  <oram:ActualQuantity unitCode="05">3</oram:ActualQuantity>
  <oram:CatalogueID>12</oram:CatalogueID>
</oram:NextOpticLowerProductLevelInformation>

```

##### 4.3.3.1.1. Identifier

Data Number: #636

##### Mandatory Data

Description: Unique identification of the product contained within the pack of products.

Data Type: Product Identification

Example:

```

<oram:ID schemeID="MF">123</oram:ID>

```

##### 4.3.3.1.2. Actual Quantity

Data Number: #645

##### Mandatory Data

Description: Quantity of the specified product contained within the pack.

Data Type: Integer

Example:

```

<oram:ActualQuantity unitCode="05">3</oram:ActualQuantity>

```

##### 4.3.3.1.3. Catalogue Identifier of a product contained in a product

Data Number = NOT IN DICTIONARY

##### Mandatory Data

Description: Identifier of catalogue in which the specified product can be found.

Data Type : Catalogue Identifier

Example :

```

<oram:CatalogueID>12</oram:CatalogueID>

```

#### 4.3.4. Designated Optic Product Classification (Optic Product)

##### Mandatory Element

Description: The classification designated for this optical product.

A product can belong to one class only.

**Please refer to the *Implementation guide – classification* and the *OPTO v11 Optic Catalogue – Implementation guide – common parts* for detailed information on how to add an optic product classification with characteristics.**

**Notes about classification for products pack:**



**4.3.4.1. Applicable Optic Product Characteristic (Optic Product Classification)**

**Optional Data (0..n)**

Description: A collection of optical material characteristic which compose this optical product.

You have to use the properties describes in the abstract Material Class. (OpticClassifications.xml)

**Please refer to the *Implementation guide – classification* and the *OPTO v11 Optic Catalogue – Implementation guide – common parts* for detailed information on how to add an optic product classification with characteristics.**

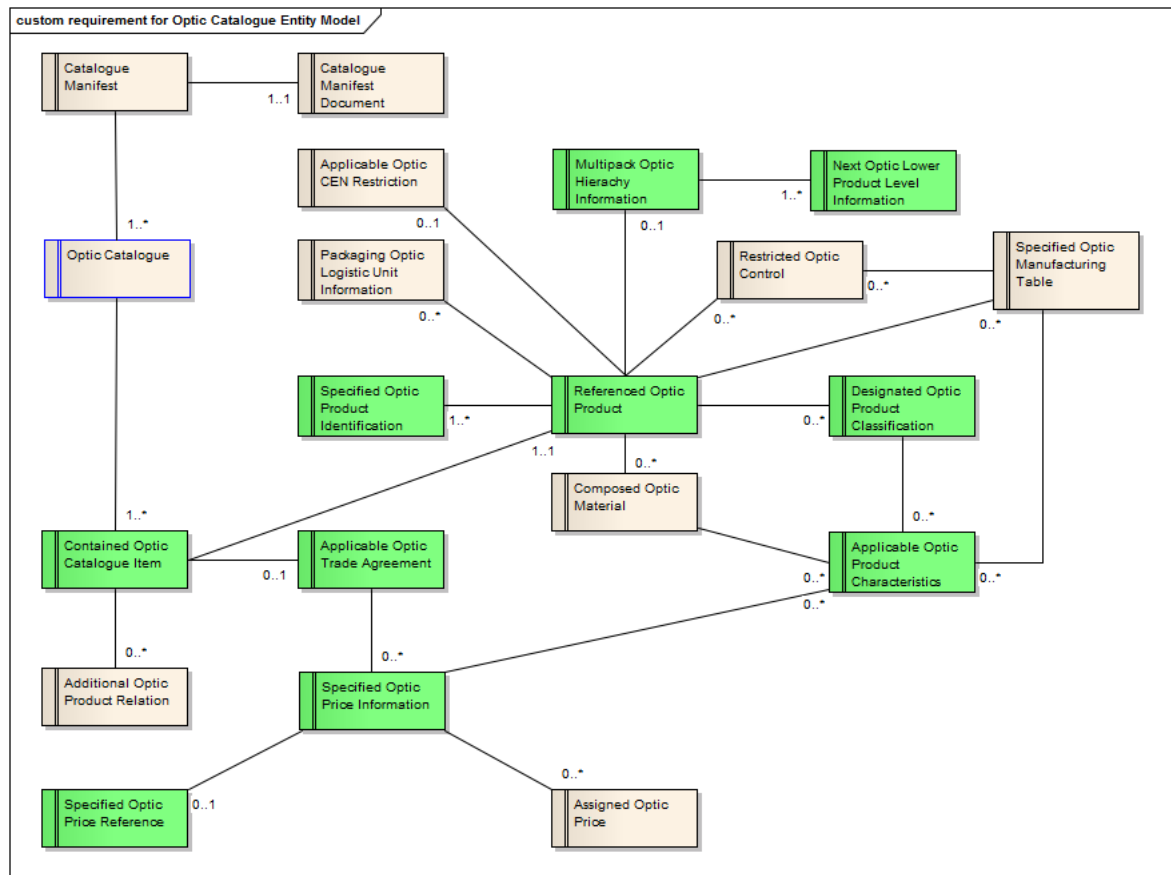
Please find below the list of characteristics for the Pack class:

**Pack Product**

**Pack Class**

No specific characteristic

## 5. How to create a pack of products



Elements in green shall be used to create a combination of multiple options within a lens catalogue.

Data located in Functional Group 40 (in the lens catalogue data dictionary) are mapped into the OpticCatalogueItem object, in the OpticTradeAgreement object and in the OpticProduct object (ProductIdentification and HierarchyInformation).

A pack of products is a product in itself. It is associated to the "PackClass".

Data located in Functional Group 41 (in the lens catalogue data dictionary) are mapped into the Hierarchy Information object.