**Purpose of this document**

This document aims to provide a guide on how to read and use the provided documentation to create the CBAM report in XML format. In the following paragraphs we cover information such as element format, Multiplicity, optionality, etc. that is provided within the Report Structure excel as well as an xml example.

**Report Structure (Data element name / XML Element code)**

The published Report Structure XLS outlines the structure of the XML that should be generated based on the XSD definition.

Each Row in the Report Structure table corresponds to an XML element (if applicable). Nested elements represent the hierarchy described by the slashes in the "XML Element code" column. When an element is nested it belongs to the group it is nested in.

An example of a nested element could be the following:

<ActorAddress>

<Country>US</Country>

<SubDivision>California</SubDivision>

<City>San Francisco</City>

<Street>Main Street</Street>

<StreetAdditionalLine>Apartment 123</StreetAdditionalLine>

<Number>10</Number>

<Postcode>94101</Postcode>

<POBox>1234</POBox>

</ActorAddress>

Here the element “<Street>Main Street</Street>” is nested within the element “<ActorAddress>”. In the "XML Element" column of the excel, this would be represented as “ActorAddress\Street”.

**“Format” Column**

For each element, the value between the opening and closing tags should adhere to the format specified in the "Format" column. In the format designations, 'n' stands for numeric characters and 'a' stands for alphanumeric characters. For example, “TotalEmissions” is a numeric element with maximum 16 digits including max 7 decimals ("n..16,7") and “PositionOfPersonSending” is a alphanumeric string of maximum length 128 (“an..128”).  
Here are some more examples of format designations:

* + n4 means exactly 4 numeric characters.
  + a2 means exactly 2 alphanumeric characters.
  + an..10 mean up to 10 alphanumeric characters.
  + n..16,7 means up to 16 numeric digits with max 7 decimal

Please note the format is also noted in the respective Quarterly Report XSD file (e.g. QReport\_17.03.XSD) file in “type” property for each element. When a special type is used e.g. “DateTimeContentType”, the exact type is listed in stypes.xsd.

**“Multiplicity” column**

In column multiplicity, the multiplicity of an element is defined. Multiplicity defines how many occurrences of an element are allowed. The values before and after the ".." represent the minimum and maximum number of times the element can occur.

For example:

1..1 in “ReportingPeriod” indicates that this element is required to be defined once and it is mandatory

0..1 in “Division” indicates that this element is optional and if defined, its occurrence should be once.

1..99999 in “ImportedGood” indicates that at least one Good needs to be declared in the report. The maximum number of goods that can be declared are 99999.

**“Optionality” column**

Column “Optionality” in Report Structure indicates whether a data element is:

* Mandatory (M)
* Optional (O)
* Conditional (C)

Optional elements can be omitted if they are not applicable. For example, “Street” and “SubDivision” are optional.

Elements marked in “Optionality” column with “C”, are conditionally mandatory. This means they are required under certain conditions, which are explained in the 'Rules' and 'Conditions' columns. Related Rules & Conditions to each element, are listed in “Rules” and “Conditions” columns respectively. The conditions applicable to these rules are listed in Sheet “Rules & Conditions”.

**“Codelists” column**

When in Column “Codelists”, a value is listed it means that the value to be provided for this specific element needs to be a valid code based on the referenced codelist.

For example:

Element “ImportArea” the available codelist is:

|  |  |
| --- | --- |
| **Code** | **Description** |
| EU | EU by means of Customs import declaration |
| EUOTH | EU by other means |

The code needs to be filled, in the value of this element, therefore for the element 'ImportArea', the value should be either 'EU' or 'EUOTH' according to the provided codelist.

**“Rules” & “Conditions” columns**

Applicable rules and conditions codes are listed in these two columns. The conditions applicable to these rules and their descriptions, are listed in the excel Sheet “Error Messages Glossary”.

**XML Example**

Here's an example of how you might translate the first few lines of this table into XML:

<Qreport>

<DraftReportId>Draft-Q1-2023</DraftReportId>

<ReportingPeriod>Q1</ReportingPeriod>

<Year>2024</Year>

<TotalImported>10000</TotalImported>

<TotalEmissions>5000.1234567</TotalEmissions>

<DeclarantType>

<IdentificationNumber>12345678901234567</IdentificationNumber>

<Name>John Doe</Name>

<Role>Manager</Role>

<ActorAddress>

<Country>US</Country>

<SubDivision>California</SubDivision>

<City>San Francisco</City>

<Street>Main Street</Street>

<StreetAdditionalLine>Apartment 123</StreetAdditionalLine>

<Number>10</Number>

<Postcode>94101</Postcode>

<POBox>1234</POBox>

</ActorAddress>

</DeclarantType>

<!-- ...Continue with the rest of XML based on the table... -->

</Qreport>