

I2 XML Guide for H7



Version 1.2

Table of contents

1.	The aim of this document	2
1.1	The aim of this document.....	3
2.	Glossary	4
2.1	Glossary	Error! Bookmark not defined.
3.	Systemspecific fields	6
3.1	Systemspecific fields	Error! Bookmark not defined.
	FunctionCode	7
	Procedure Category	7
	MRN	7
	Submitter	8
4.	Group 11 - Message information (including procedure codes)	9
4.1	Group 11 – Message information (including procedure codes) ...	Error! Bookmark not defined.
	Declaration type/Additional declaration type	10
5.	Group 12 - References of messages, documents, certificates, authorizations	11
5.1	Group 12 – References of messages, documents, certificates, authorizations	Error! Bookmark not defined.
	Previous Document.....	12
	LRN	12
6.	Group 13 - Parties	14
6.1	Group 13 – Parties	Error! Bookmark not defined.
	Declarant.....	15
	Representative	16
7.	Group 16 – Places/ Countries/Regions.....	17
7.1	Group 16 – Places/ Countries/Regions	Error! Bookmark not defined.
	Location of goods.....	18
8.	Group 19 - Transport information (modes, means and equipment)	23
8.1	Group 16 – Transport information (modes, means and equipment) ..	Error! Bookmark not defined.
	Transport Equipment	24

The aim of this document

1

1.1 The aim of this document

The aim of this document is to give an in-depth description of the different fields and data elements contained in the XSD-file for H7 based on the European Union Customs Data Model (EUCDM).

The document is structured after the EUCDM grouping of the data elements as well as DMS-specific data fields that are required by the system when using the S2S solution:

- **System specific fields:** This section includes fields that are needed by the system to recognize what declaration is sent in, who is submitting the declaration, as well other data that is needed to fulfill the desired action.
- **Group 11:** This section contains basic information about the declaration, meaning if the declaration is pre-lodged or a standard and which procedures the declaration should be processed under. All this information has influence over how the declaration is processed, what kind of business scenario (e.g., B2B, private to private, etc.) and procedure to be expected and requested.
- **Group 12:** This section is for the submitter to present all other relevant information and documents related to the submitted declaration that is not contained in the data fields. This is especially used for references tracking documents, authorizations and supplying tracking numbers.
- **Group 13:** This section contains information on all parties involved in the import. It is here information on the importer, exporter, declarant, fiscal reference, and representative is provided either by ID or other identifiable information depending on whether the party is a business or private person.
- **Group 14:** In this section the value of the goods item(s) is provided as well as the postal charges for the transportation of the goods to the final destination. The total value of the goods item(s) is the base for which the VAT is calculated.
- **Group 16:** This section contains the information on where the goods will be or are presented (depending on whether it is a pre-lodged or a standard declaration) as well as the Customs Office of presentation.
- **Group 19:** In this section the submitter supplies more detailed information on the transportation, e.g. equipment, modes, etc.

Under each data element in the groups is provided a detailed description on whether the field is mandatory or optional as well as what rules to adhere to depending on the desired business scenario to make use of, and XML-examples are provided to give context. Information on EUCDM code, as well as the SAD-box number in the old system is also provided to help the reader in seeking further information if needed, as well as give a mapping between the old system and the new system when possible.

Lastly, some full XML-examples are provided for specific and commonly used business scenarios to further provide insight in how the rules are applied in the specific scenarios.

Glossary

2

For the purpose of making the document shorter and easier to read, some abbreviations are used. Here is given a list of the abbreviations used in this document.

Abbreviation	Description	Details
M	Mandatory	The field is mandatory to declare.
O	Optional	The field is optional to declare or should only be declared if relevant information is available.
MC	Conditionally mandatory	The information is mandatory dependent on other information given in the declaration, e.g., type of declaration or commodity code.
DL	Declaration level	The information is given on header level and applies to all the goods items in the declaration.
GSL	Goods shipment level	The information is given on goods shipment level and applies to all the goods items in the goods shipment.
GIL	Goods item level	The information is given on goods item level and applies to only the goods item it is declared under.
SAD	Single Administrative Document	The SAD is the main customs form used in international trade to or from the European Union Customs Union.
SAD-box	Single Administrative Document box	The box-number of the fields in the old Importsystemet.
EUCDM	European Union Customs Data Model	The European Union Customs Data Model (EUCDM) is the model for Customs trans-European systems such as NCTS, AES, ICS, EOS and for Member States national customs clearance systems
XSD	XML Schema Definition	A document that specifies how to formally describe the elements in an Extensible Markup Language (XML) document. This description can be used to verify that each item of content in a document adheres to the description of the element in which the content is to be placed.
XML	Extensible Markup Language	A simple text-based format for representing structured information, storing, and sending data. It is the file format used to send declarations to DMS.

System specific fields

3

This group of fields are specific to the it-system and is not part of the EUCDM. These fields are mainly used for the system to specify what kind of declaration is sent in, or which one to send requests to.

FunctionCode						
EUCDM 6.1	XSD/XML-name:	XSD-path				
None	FunctionCode	Declaration/FunctionCode				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
	None	n..2	None	None	M DL	No/No
Description:						
This data element is the code which indicates what type of request that is being sent, whether it be a submission, amendment, correction, etc. There are predefined codes for each request.						
Rules/codes/other relevant information:						
For an I2 submitted to a H7 it is only possible to use the following code: <ul style="list-style-type: none"> - 24: Goods presentation of goods items on an H7 declaration 						
XML-examples:						
<FunctionCode>24</FunctionCode> --- for goods presentation						

Procedure Category						
EUCDM 6.1	XSD/XML-name:	XSD-path				
None	ProcedureCategory	Declaration/ProcedureCategory				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
	None	an..3	None	None	M DL	No/No
Description:						
This data element indicates what type of declaration is being submitted/amended/corrected/etc.						
Rules/codes/other relevant information:						
There is only one way to fill this data element when it relates to an I2 submitted for an H7 declaration: “H7”.						
XML-examples:						
<ProcedureCategory>H7</ProcedureCategory>						

MRN						
EUCDM 6.1	XSD/XML-name:	XSD-path				
None	ID	Declaration/ID				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
	None	an..18	None	None	MC DL	No/No
Description:						

The MRN is automatically generated following the EUCDM legislation as a unique combination of 18 characters. The MRN is created by the Customs agency and is send as part of the CWMACC notification for an IMA and in the CWMRCV notification for an IMD.

The combination of the 18 characters is, in the time of writing, as follows:

- The last two digits of the year of formal acceptance of the declaration (e.g., '21' for 2021)
 - Consist of 2 digits
- 2. Country where the declaration/proof of the customs status of union goods/notification is lodged (e.g., 'DK' for Denmark)
 - Consist of 2 letters
- 3. Unique identifier based on year and country (e.g., 21DK04K21LO1)
 - Consist of 12 alphanumeric characters
- 4. Procedure identifier of the declaration (e.g., R for H1, H2, H3, H4, H6, H7 or I2)
 - Consist of 1 alphanumeric character
- 5. Control digit (e.g. '5')
 - Consist of 1 alphanumeric character
- 6. Based on the ISO 6346 algorithm

Rules/codes/other relevant information:

Must be the same as for the H7 that I2 is submitted for.

The data is validated against the initial H7 declaration, and the I2 will not be registered for the H7 declaration, if the data does not match.

XML-examples:

```
<ID>21DK123456789012R3</ID>
```

Submitter

EUCDM 6.1	XSD/XML-name:	XSD-path				
None	Submitter	Declaration/Submitter				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
	Name ID	an..70 an..17	None	None	M DL	No

Description:

The name and identifier of the company submitting the declaration.

Rules/codes/other relevant information:

Submitter Name: The CVR/SE-number/EORI given by the client certificate used for the submission of declarations.

Submitter ID: The CVR/SE-number/EORI given by the client certificate used for the submission of declarations. This sub-element is optional

XML-examples:

```
<Submitter>
  <Name>12345678</Name>
  <ID>12345678</ID>
</Submitter>
```

Group 11 - Message information (including procedure codes)

4

**Group 12 - References of
messages, documents,
certificates, authoriza-
tions**

5

This group of fields includes all extra relevant information and documents, as well as reference numbers to the declaration.

Previous Document						
EUCDM 6.1	XSD/XML-name:	XSD-path				
12 01 000 000	PreviousDocument	Declaration/GoodsShipment/PreviousDocument				
None	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
12 03 002 000	SequenceNumeric	n..5	2/1	40	O GSL	Yes/Yes
12 03 001 000	CategoryCode	an..3				
12 03 002 000	ID	an..70				
12 03 002 000	TypeCode	an..3				
None	LineNumeric	n..5				
Description:						
Information relating to a previous document, an example could be the air waybill.						
Rules/codes/other relevant information:						
Mandatory if relevant for identification of the goods.						
<p>If one subfield is filled, all subfields must be filled.</p> <p>For relevant codes to fill in CategoryCode and TypeCode, see: https://www.skat.dk/skat.aspx?old=1658884</p> <ul style="list-style-type: none"> - CategoryCode should be filled according to the 'Dok kat'-column - TypeCode should be filled according to the 'Dok art'-column. <p>To refer multiple documents, repeat this element the required number of times and fill in SequenceNumeric sequentially starting at 1.</p>						
XML-examples:						
<pre> <PreviousDocument> <SequenceNumeric>1</SequenceNumeric> <CategoryCode>X</CategoryCode> <ID>AirWaybill123</ID> <TypeCode>740</TypeCode> <LineNumeric>1</LineNumeric> </PreviousDocument> </pre>						

LRN						
EUCDM 6.1	XSD/XML-name:	XSD-path				
12 09 000 000	FunctionalReferenceID	Declaration/ FunctionalReferenceID				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
	None	an..22	2/5	None	M	No/No
Description:						
LRN – The local reference number (LRN) shall be used. It is nationally defined and allocated by the declarant in agreement with the competent authorities to identify each single declaration.						
Rules/codes/other relevant information:						
No special characters are allowed.						

Must be identical to the LRN declared on the initial H7 declaration.
XML-examples:
<code><FunctionalReferenceID>140721DKQXYMEEW</FunctionalReferenceID></code> <code><FunctionalReferenceID>9754349057254</FunctionalReferenceID></code>

Group 13 - Parties

6

This group of fields describes all the involved parties for the imported goods.

Declarant

EUCDM 6.1	XSD/XML-name:	XSD-path				
13 05 000 000	Declarant	Declaration/Declarant				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
13 05 016 000	Name	an..70				
13 05 017 000	ID	an..17				
13 05 018 000	Address		3/17 and 3/18	14	O DL	Yes/No
13 05 018 022	CityName	an..35				
13 05 018 020	CountryCode	a2				
13 05 018 019	Line	an..70				
13 05 018 021	PostCodeID	an..9				

Description:

ID, name and address of the person or company importing the goods.
Importer and declarant can be the same.

Rules/codes/other relevant information:

Cannot be changed from private EORI to non-private EORI.

The required information is specified by the EORI number in 3/18 – Declarant ID:

- If Declarant ID is 'DK09999981' then the Name and Address fields **must be filled**.
- If Declarant ID is not 'DK09999981' then the Name and Address fields **must not be filled**.

It is optional to declare 13 05 074 016 – Declaration Contact. If filled all subfields have to be filled, and both a 13 05 074 076 - E-mail address and 13 05 074 075 - Phone number is required, see XML-examples below.

The **TypeCode** indicates if it an e-mail address or a telephone number, and uses the following codes:

- 'EM' – E-mail address
- 'TEL' – Telephone Number

It is possible to declare up to 9 Contacts.

XML-examples:

If Declarant ID is 'DK09999981':

```
<Declarant>
  <Name>Declarant Name</Name>
  <ID>DK09999981</ID>
  <Address>
    <CityName>City name</CityName>
    <CountryCode>DK</CountryCode>
    <Line>Street name 123</Line>
    <PostcodeID>1234</PostcodeID>
  </Address>
</Declarant>
```

If Declarant ID is not 'DK09999981':

<Declarant> <ID>DK12345678</ID> </Declarant>
--

Representative

EUCDM 6.1	XSD/XML-name:	XSD-path				
13 06 000 000	Agent	Declaration/Agent				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
13 06 017 000	Name	an..17	3/20 and	14	O DL	Yes/No
13 06 030 000	FunctionCode	n1	3/21			

Description:

Identification of party authorized to act on behalf of another party.

Rules/codes/other relevant information:

Can currently only be declared or corrected if also declared on the preceding H7 declaration.

ID: This should be the EORI number of the representative party.

FunctionCode: There are two valid codes to declare in this field:

- '2': Direct representation
- '3': Indirect representation

XML-examples:

Direct representation:

<Agent>

<ID>DK12345678</ID>

<FunctionCode>2</FunctionCode>

</Agent>

Indirect representation:

<Agent>

<ID>DK12345678</ID>

<FunctionCode>3</FunctionCode>

</Agent>

Group 16 – Places/ Countries/Regions

7

This group identifies where the goods will be/are presented.

Location of goods						
EUCDM 6.1	XSD/XML-name:	XSD-path				
16 15 000 000	GoodsLocation	Declaration/GoodsShipment/Consignment/GoodsLocation				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
16 15 036 000	Name	n..17	5/23	30	MC GSL	Yes/Yes
16 15 053 000	ID	an..4				
16 15 045 000	TypeCode	a1				
16 15 018 000	Address					
16 15 046 000	TypeCode	a1				
16 15 018 022	CityName	an..35				
16 15 018 020	CountryCode	a2				
16 15 018 019	Line	an..70				
16 15 018 021/	PostCodeID	an..9				
16 15 081 021						
16 15 081 015	streetNumber	an..35				
16 15 052 000	authorisationReferenceNumber	an..35				
16 15 047 000	CustomsOffice					
16 15 047 001	identification	an8				
16 15 048 049	latitude	an..17				
16 15 048 050	longitude	an..17				
16 15 051 000	EconomicOperator					
16 15 051 017	identification	an..17				
Description:						
The location of the goods.						
The sub elements describe the following:						
<ul style="list-style-type: none">- Name: UN/LOCODE- ID: Additional identifier- TypeCode: Type of location- Address:<ul style="list-style-type: none">- TypeCode: Qualifier of identification- CityName: Name of city- CountryCode: The country code- Line: Street name- PostCodeID: Post code- streetNumber: Street number- authorisationReferenceNumber: Authorisation number- CustomsOffice:<ul style="list-style-type: none">- identification: Customs Office ID- latitude: Latitude coordinate- longitude: Longitude coordinate- EconomicOperator:<ul style="list-style-type: none">- Identification: EORI number						
Rules/codes/other relevant information:						
Mandatory for a standard H7 declaration (IMA).						
Type of location:						

The type of location, and how it is declared, is given by the fields: TypeCode and IdentificationType. For declaring the location of goods there are predefined codes for indicating the type of location and how it is declared with specific possible values and combinations:

- **TypeCode (Type of location)**

This TypeCode Indicates the type of location where the goods will be presented.

The TypeCodes and their types of locations are:

- 'A': Designated place
- 'B': Authorised place – **NOT possible to use yet**
- 'C': Approved place
- 'D': Other

- **IdentificationType (Qualifier of identification – indicates how the location will be declared)**

The Address/TypeCode will indicate how the location will be declared/described.

The Address/TypeCodes are:

- 'T': Postcode address – **NOT possible to use, declaration will be rejected**
- 'U': UN/LOCODE
- 'V': Customs Office ID
- 'W': GNSS coordinates
- 'X': EORI number
- 'Y': Authorisation number - **NOT possible to use yet**
- 'Z': Free text

The valid combinations for the two fields are:

- 'A' and 'U': Designated place identified by UN/LOCODE (eg. DKCPH for Copenhagen)
- 'A' and 'V': Designated place identified by Customs Office ID (eg. 007900 for Skattecenter København)
- 'C' and 'Z': Approved place identified by filling in the address fields.
- 'D' and 'T': Other place identified by filling in postal code, country code and street number. – **not possible to use, the declaration will be rejected.**
- 'D' and 'Z': Other place identified by filling in the address fields.
- 'D' and 'W': Other place identified by GNSS coordinates.
- 'D' and 'X': Other place identified by an EORI number.

Name:

What to fill in this field is given by the **Qualifier of identification**, meaning that if:

- **IdentificationType = 'T'** this field should not be filled.
- **IdentificationType = 'U'**: this field should be the UN/LOCODE (eg. 'DKCPH').
- **IdentificationType = 'V'**: this field should not be filled.
- **IdentificationType = 'W'**: this field should not be filled.
- **IdentificationType = 'X'**: this field should not be filled.
- **IdentificationType = 'Z'** this field should not be filled.

ID:

What to fill in this field is given by the **Type of location**, meaning that if:

- **IdentificationType = 'T'** this field should not be filled.
- **IdentificationType = 'U'**: this field should be the additional identifier of the UN/LOCODE (e.g. '0011', which together with the Name (i.e. 'DKCPH') is DKCPH-0011 which indicates Langelinie in Copenhagen)
- **IdentificationType = 'V'**: this field should not be filled.
- **IdentificationType = 'W'**: this field should not be filled.
- **IdentificationType = 'X'**: this field can be filled with an additional identifier.

- **IdentificationType = 'Z'** this field should not be filled.

TypeCode (Type of location):

Valid codes for the type of location:

- **'A'**: Designated place (can be combined with IdentificationType: 'U' and 'V')
- **'C'**: Approved place (can be combined with IdentificationType: 'Z')
- **'D'**: Other (can be combined with IdentificationType: 'Z', 'T', 'X' and 'W')

IdentificationType (Qualifier of identification):

Valid codes for the type of location:

- **'U'**: UN/LOCODE (can be combined with TypeCode: 'A')
- **'V'**: Customs Office ID (can be combined with TypeCode: 'A')
- **'W'**: GNSS coordinates (can be combined with TypeCode: 'D')
- **'X'**: EORI number (can be combined with TypeCode: 'D')
- **'Y'**: Authorisation number (can be combined with TypeCode: 'B') – **NOT possible to use yet**
- **'Z'**: Free text (can be combined with TypeCode: 'C' and 'D')

Address:
CityName

City name of the location of goods.

Should only be filled when **IdentificationType = 'Z'**.

CountryCode

Country code of the location of goods.

Should only be filled when **IdentificationType = 'Z'** or **'T'**.

Line

Street name and street number of the location of goods.

Should only be filled when **IdentificationType = 'Z'**.

PostCodeID

Post code of the location of goods.

Should only be filled when **IdentificationType = 'Z'** or **'T'**.

streetNumber

Street number of the location of goods.

Should only be filled when **IdentificationType = 'T'**.

authorisationReferenceNumber:

Authorisation number.

Should only be filled when **IdentificationType = 'Y'** – **NOT possible to use yet**

CustomsOffice:
identification

Customs Office ID.

Should only be filled when **IdentificationType = 'V'**.

See the list of Customs Office ID's here: https://ec.europa.eu/taxation_customs/dds2/rd/rd_search_home.jsp?Lang=en

latitude:

Latitude coordinate of the location of goods.

Should only be filled when **IdentificationType = 'W'**.

longitude:

Longitude coordinate of the location of goods.
Should only be filled when **IdentificationType** = 'W'.

**EconomicOperator:
identification**

EORI number of Economic Operator.
Should only be filled when **IdentificationType** = 'X'.

XML-examples:

For TypeCode 'A' and IdentificationType 'U':

```
<Consignment>
  <GoodsLocation>
    <Name>DKFDH</Name>
    <ID>0003</ID>
    <TypeCode>A</TypeCode>
    <IdentificationType>U</IdentificationType>
  </GoodsLocation>
</Consignment>
```

For TypeCode 'A' and IdentificationType 'V':

```
<Consignment>
  <GoodsLocation>
    <TypeCode>A</TypeCode>
    <IdentificationType>V</IdentificationType>
    <CustomsOffice>
      <identification>DK004700</identification>
    </CustomsOffice>
  </GoodsLocation>
</Consignment>
```

For TypeCode 'C' and IdentificationType 'Z':

```
<Consignment>
  <GoodsLocation>
    <TypeCode>C</TypeCode>
    <IdentificationType>Z</IdentificationType>
    <Address>
      <CityName>City name</CityName>
      <CountryCode>DK</CountryCode>
      <Line>Street name 123</Line>
      <PostcodeID>1234</PostcodeID>
    </Address>
  </GoodsLocation>
</Consignment>
```

For TypeCode 'D' and IdentificationType 'Z':

```
<Consignment>
  <GoodsLocation>
    <TypeCode>D</TypeCode>
    <IdentificationType>Z</IdentificationType>
    <Address>
      <CityName>City name</CityName>
      <CountryCode>DK</CountryCode>
      <Line>Street name 123</Line>
      <PostcodeID>1234</PostcodeID>
    </Address>
```

```
</GoodsLocation>  
</Consignment>
```

For TypeCode 'D' and IdentificationType 'W':

```
<Consignment>  
  <GoodsLocation>  
    <TypeCode>D</TypeCode>  
    <IdentificationType>W</IdentificationType>  
    <latitude>55.67594</latitude>  
    <longitude>45.67594</longitude>  
  </GoodsLocation>  
</Consignment>
```

For TypeCode 'D' and IdentificationType 'X':

```
<Consignment>  
  <GoodsLocation>  
    <TypeCode>D</TypeCode>  
    <IdentificationType>X</IdentificationType>  
    <EconomicOperator>  
      <identification>DK12345678</identification>  
    </EconomicOperator>  
  </GoodsLocation>  
</Consignment>
```

Group 19 - Transport information (modes, means and equipment)

8

This group provides information on transportation.

Transport Equipment

EUCDM 6.1	XSD/XML-name:	XSD-path				
19 07 000 000	TransportEquipment	Declaration/GoodsShipment/Consignment/TransportEquipment				
	Sub elements	Format	EUCDM 5.2	SAD-box no.	Mandatory?	C/A
19 07 044 000	SequenceNumeric	n...5	New	None	O GSL	No/Yes
19 07 063 000	ID	an..17				

Description:

Information about the transport equipment.

Rules/codes/other relevant information:

Mandatory if goods come in container.

SequenceNumeric: Goods reference – the goods item number(s) in the container

ID: Container identification number

XML-examples:

Direct representation:

```
<TransportEquipment>
  <SequenceNumeric>1</SequenceNumeric>
  <ID>12345678</ID>
</TransportEquipment>
```

