

OTF23 - Message Implementation Guide (MIG)

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Resource Locations

Please use the following resources from the repository to find accurate definitions, field types and requirements:

Type / Folder	Folder	File formats	Details
XSD BluePrint	[version]\project\1_XSD_BluePrint\ [version]	.XSD	See conventions below
Development examples	[version]\project\2_Solution\	Visual Studio project	Code examples for sample file generation and (de-)serialization
Development schemas	[version]\release\bin\	.XSD, .DLL, .CS	Import into dev solution, use class serialization
Sample files (for testing)	[version]\release\samples\[version]	.XML, .JSON	Generated sample files

Schema Discovery & Sample File Browsing Recommendations

- XSD format is easy to learn ([link](#))
- You may want to use a tool like Notepad++ while browsing the BluePrint files for faster browsing ([link](#))
- Copy and paste segments of XML along with your questions into AI ChatBots for fast answers to questions to speed up your process

File Format Rules

General

- utf-8 encoding

- XML or JSON

Filenames

- Recommended to use "[FileType]-[GUID].[properExtension]", for example: "Message_Container_PreNotification_StatusUpdate-ae762fff-9a44-444f-b7db-2b89306c7568.xml"
- Proper extension (xml or json) is expected

File Content

General

- Elements are case-sensitive

Localization

Date/Time

- Format=UTC
- Example: 2000-01-01T00:00:00.0000000+01:00
- More information [here](#)

Currency

- Format=ISO 4217 alphabetic
- Example: EUR, USD
- More information [here](#)


Weights

- All Weight fields are accompanied by a Unit field
- Unit code field values are case-insensitive
- Messages containing unsupported units must be bounced

Supported Unit	Unit code value	More information
Kilogram	kg	 UCUM Specification
Liter	l	 UCUM Specification
US Liquid Gallon	gal	Have fun with  Gallon

Temperatures

- All Temperature fields are accompanied by a Unit field
- Unit code field values are case-insensitive

Supported Unit	Unit code value	More information
Celsius	C	 Temperature
Fahrenheit	F	 Temperature

XSD Blueprint conventions

 To avoid unsynced double documentation, we direct you towards the XSD BluePrint files for detailed and correct file definitions.

The XSD BluePrint files describe:

- Element Structure
- Element data types
- Element requirements

Filename Conventions

Prefix

Filename prefix	Description
<i>Message_</i>	Message file
[other]	Supporting file

Domain segment

Filename segment	Description
<i>Common_</i>	Domain independent
<i>Container_</i>	Applicable to any container type
<i>TankContainer_</i>	Applicable to only tank containers

Special

Plural filename may be:

- Enum
- List of objects

Content Conventions

Some elements recur often in various messages

Element	Description
MessageHeaderInfo	General message information
OrderInfo	General order information
ContainerInfo	General container information
Remarks	A list of remarks