

# OTF21 - Message Implementation Guide (MIG)

- Resource Locations
  - Schema Discovery & Sample File Browsing Recommendations
  - File Format Rules
    - General
    - Filenames
  - File Content
    - General
    - Localization
      - DateTime
      - Currency
      - Weights
      - Temperatures
  - XSD BluePrint conventions
    - Filename Conventions
      - Prefix
      - Domain segment
      - Special
    - Content Conventions

## 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]\project1_XSD_BluePrint\ [version]	.XSD	See conventions below
Development examples	[version]\project12_Solution\	Visual Studio project	Code examples for sample file generation and (de-)serialization
Development schemas	[version]\releaselbin\	.XSD, .DLL, .CS	Import into dev solution, use class serialization
Sample files (for testing)	[version]\releaselsamples\[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	<a href="#">UCUM Specification</a>
Liter	l	<a href="#">UCUM Specification</a>
US Liquid Gallon	gal	Have fun with <a href="#">Gallon</a>

#### 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	<a href="#">Temperature</a>
Fahrenheit	F	<a href="#">Temperature</a>

## 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 <b>only</b> 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