REMIT UMM XML

Implementation Guide

Draft version

Version	Date	Author	Summary of Changes
0.1	November 11, 2016	Per Almbladh, Sara Remete	Initial version

Contents

This implementation guide defines the usage of XML schemas in reporting Urgent Market Messages (UMMs) in Nord Pool's UMM Application.

XML File Naming Conventions

The file name of xml file provided to FTP: **<messageId>_<version>.xml**

Examples:
- a6a21596-8707-4b8b-b0e3-359ee8d80f76_1.xml
- 8dbd4023-415f-4c66-b7d8-393fc1d4e785_2.xml

Description of UMM XML Elements

User Subscriptions:
- Remit
- Transparency

List of fields for UMMs related to
- Unavailabilities of electricity facilities. Production unavailability (**I**)
- Unavailabilities of electricity facilities. Consumption unavailability (**II**)
- Unavailabilities of electricity facilities. Transmission unavailability (**III**)
- Unavailabilities of electricity facilities. Other unavailability (**IV**)
- Other Market information (**V**)

R - required - element included in xml, and has value

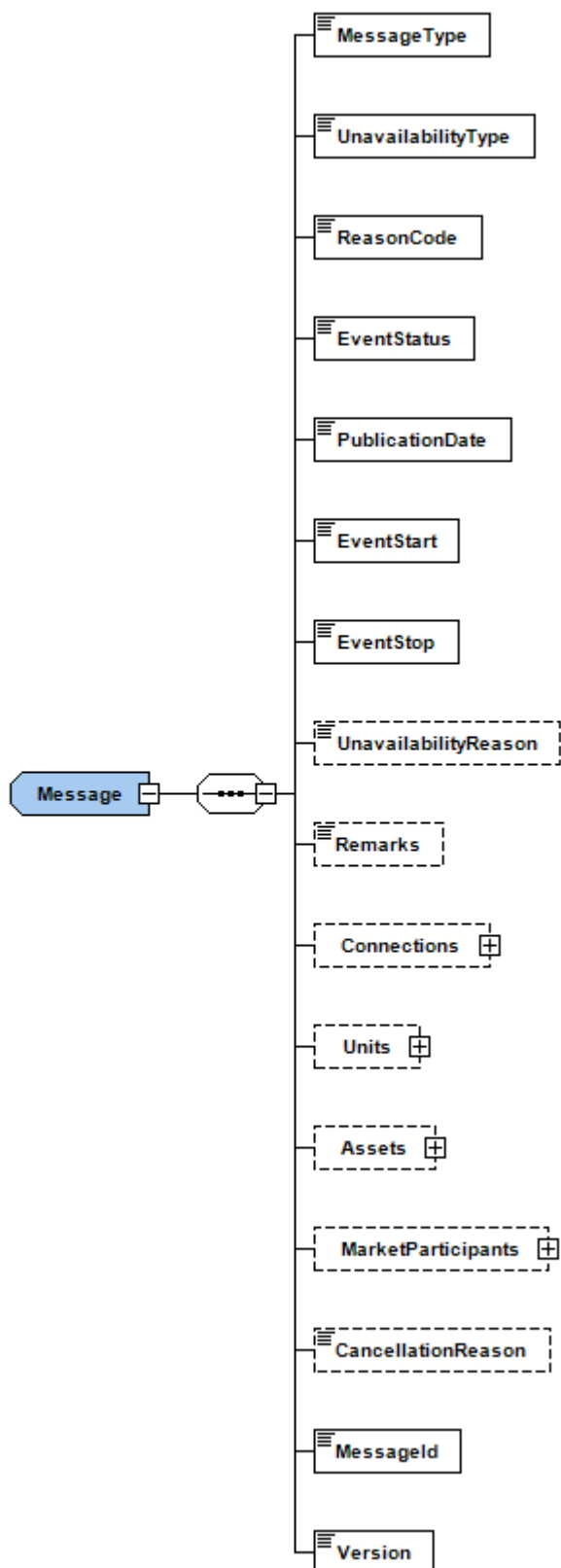O - optional - if not defined, the element is not included in xml

O/nil - optional - if not defined, the element is included but its value is xsi:nil="true"

E - empty - element included in xml, but it is empty

nil - xsi:nil="true" - NULL value

Sub-elements' requirements are relevant only in case the parent element is included and not empty in the xml.

Message
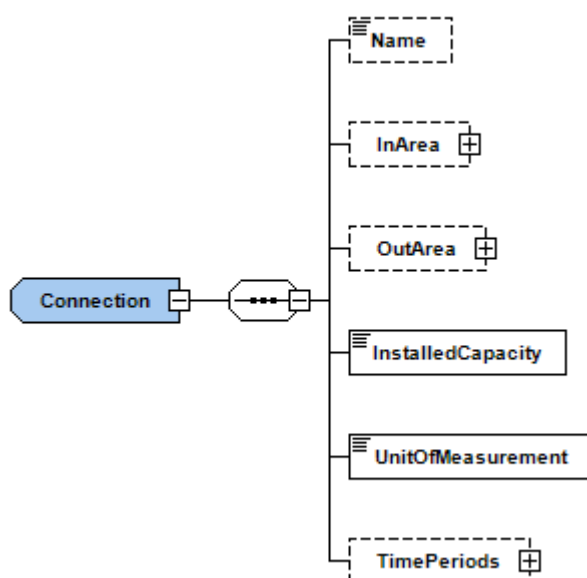

Message

- MessageType
- UnavailabilityType
- ReasonCode
- EventStatus
- PublicationDate
- EventStart
- EventStop
- UnavailabilityReason
- Remarks
- Connections
- Units
- Assets
- MarketParticipants
- CancellationReason
- MessageId
- Version

Element	Description	I	II	III	IV	V
MessageType	Defines type of message according to ACER specification. Possible values: • ProductionUnavailability • ConsumptionUnavailability • TransmissionUnavailability • OtherUnavailability • MarketInformation	R	R	R	R	Remit: R Transp.: N/A
Unavailability Type	Defines if the unavailability is related to a planned maintenance or is a result of an unforeseen event. Possible values: • Planned • Unplanned	R	R	R	R	Remit: nil Transp.: N/A
ReasonCode	Defines if the unavailability is related to a planned maintenance or is caused by a failure. Reason code is required by Transparency Regulation reporting to ENTSOE. Possible values: • ForeseenMaintenance • Failure	Remit: O/nil Transp.: R	Remit: O/nil Transp.: R	Remit: O/nil Transp.: R	R	Remit: nil Transp.: N/A
EventStatus	Defines the status of the event, i.e. if the event is active or has been cancelled/dismissed. Possible value: • Active • Dismissed	R	R	R	R	Remit: R Transp.: N/A
PublicationDate	Defines the date and time when message was published to Market. The date and time must be expressed in ISO 8601 time format using UTC time format Example: 2016-10-26T10:16:28.7174368Z	R	R	R	R	Remit: R Transp.: N/A
EventStart	Defines the start date and time of the event. The date and time must be expressed in ISO 8601 time format using UTC time format Example: 2016-10-26T10:00:00Z	R	R	R	R	Remit: R Transp.: N/A
EventStop	Defines the end date and time of the event.	R	R	R	R	Remit: O Transp.: N/A

	The date and time must be expressed in ISO 8601 time format using UTC time format Example: 2016-10-28T08:05:00Z					
Unavailability Reason	Text field to provide a more detailed explanation on the cause(s) of the unavailability. Length in characters num:: 500	Remit: R Transp.: O	Remit: R Transp.: O	Remit: R Transp.: O	Remit: R Transp.: O	Remit: nil Transp.: N/A
Remarks	Text field to provide a more detailed information on the event that allows a full understanding of its potential impact on wholesale energy prices. Length in characters num:: 500	O	O	O	O	Remit: R Transp.: N/A
Connections	List of "Connection" elements	E	E	R	E	Remit: E Transp.: N/A
Units	List of "Unit" elements	R	R	E	R	Remit: E Transp.: N/A
Assets	List of "Asset" elements	R in case of "WindOffshore" FuelType Not included otherwise	N/A	O	N/A	Remit: O Transp.: N/A
MarketParticipants	List of "MarketParticipant" elements	Remit: R Transp.: O	Remit: R Transp.: O	Remit: R Transp.: O	Remit: R Transp.: O	Remit: R Transp.: N/A
Cancellation Reason	Text field to state the reason why a message or event has been cancelled. Length in characters num: 500	O	O	O	O	Remit: O Transp.: N/A
MessageId	Unique identifier of the UMM message. (UUID) Also it is identifier of the message thread with respect to ACER RSS. Message thread in this context serves as the link between a published UMM and the potential series of generated ACER RSS messages. A UMM with profiled capacity values results in several ACER RSS messages, each with a single capacity value.	R	R	R	R	Remit: R Transp.: N/A

Version	Version number of the message. The versioning starts from 1. By each update of the message (including the cancel action), the version number increments by 1.	R	R	R	R	Remit: R Transp.: N/A

Connection

Element	Description	I	II	III	IV	V
Name	Name of the connection, constructed based on InArea and OutArea. The combination of InArea and OutArea defines the direction of the connection. Example: FI → SE3. Capacity is seen as the power flow from FI to SE3 in this case.	N/A	N/A	R	N/A	N/A
InArea	Input area defines the From area	N/A	N/A	R	N/A	N/A
OutArea	Output area defines the Receiving area	N/A	N/A	R	N/A	N/A
InstalledCapacity	Length in characters num:: 25 Measures the nominal generating/transmission/consumption capacity. It is the maximum electrical active power/energy interchange the facility can produce/transmit /consume continuously throughout a long period of operation in normal conditions, under relevant security standards.	N/A	N/A	R	N/A	N/A
UnitOfMeasurement	MW Always Megawatt (MW) for electricity facilities	N/A	N/A	R	N/A	N/A

| TimePeriods | List of "EventTimePeriod" elements

A message may contain several time periods with different capacity values. | N/A | N/A | R | N/A | N/A |

**Unit**

Element	Description	I	II	III	IV	V
UnitType	Defines if the electricity facility is a production unit (e.g. power plant) or a consumption unit (e.g. Industry). Generation unit is the lower level of a Production unit, e.g. a Power plant with three generators. Possible values: • Production • Generation • Consumption	R	R	N/A	R	N/A
Name	Official name of the unit. Length in characters num:: 50	R	R	N/A	R	N/A

|						
Eic	Energy Identification Code (EIC) scheme, approved by ENTSO-E for the harmonization and implementation of standardized electronic data interchanges. Length in characters num:: 16 The codification scheme used shall be: EIC W , V, T or Z coding scheme. Examples: • 21W000000000001L • 10T-AD-ES-00001T • 10Z-AD-ES-00001J	R	R	N/A	R	N/A
UnitOfMeasurement	MW Always Megawatt (MW) for electricity facilities	R	R	N/A	R	N/A
Area	Defines the bidding zone(s) where the affected Production unit/ Consumption unit/Affected Assets are located. See details at "Area" element	R	R	N/A	R	N/A
InstalledCapacity	Measures the nominal generating/transmission/consumption capacity. It is the maximum electrical active power/energy interchange the facility can produce/transmit /consume continuously throughout a long period of operation in normal conditions, under relevant security standards. Length in characters num:: 25	R	R	N/A	R	N/A
PowerFeedIn	The wind power fed in (MW) at the time of the change in the availability. Required by Transparency Regulation article 10.1.c Its value is only relevant, if the FuelType is "Wind Offshore", otherwise the value is nill. "xsi:nil="true"".	R	nil	N/A	nil	N/A
FuelType	Possible values: • Biomass • FossilBrownCoalOrLignite • FossilCoalDerivedGas • FossilGas • FossilHardCoal • FossilOil • FossilOilShale • FossilPeat • Geothermal • HydroPumpedStorage • HydroRunOfRiverAndPoundage	R	nil	N/A	nil	N/A

|						
	• HydroWaterReservoir • Marine • Nuclear • OtherRenewable • Solar • Waste • WindOffshore • WindOnshore • Other					
GenerationInformation	See details at element "GenerationInformation"	R in case of UnitType "Generation"	N/A	N/A	N/A	N/A
TimePeriods	List of "EventTimePeriod" elements	R	R	N/A	R	N/A

Area, InArea, OutArea
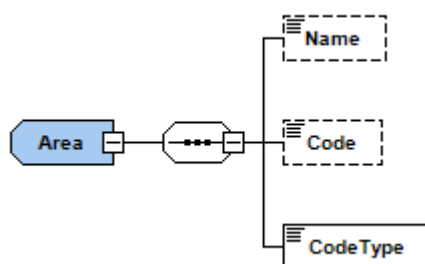
Element	Description	I	II	III	IV	V
Name	Area (bidding zone) short name. Example; FI, EE, SE3, NO4. etc.	R	R	R	R	N/A
Code	Area EIC code (object type Y code) Example: • 10YFI-1--------U • 10YDE-EON------1 • 10YCH-SWISSGRIDZ	R	R	R	R	N/A
CodeType	EIC	R	R	R	R	N/A

GenerationInformation
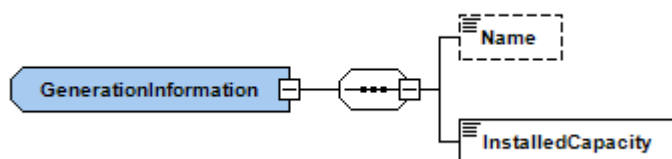
Element	Description	I	II	III	IV	V
Name	Official name of the generator. Length in characters num: 50	R	N/A	N/A	N/A	N/A
InstalledCapacity	See details for Unit/InstalledCapacity element	R	N/A	N/A	N/A	N/A

EventTimePeriod
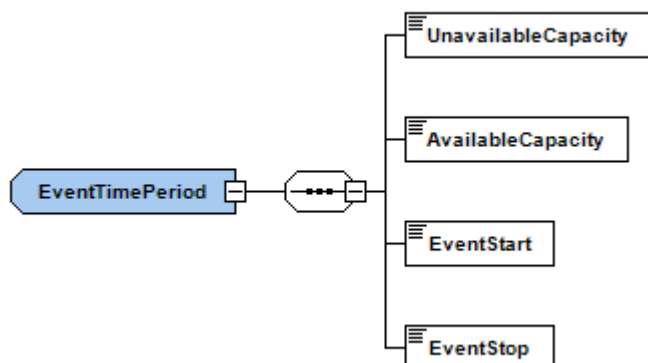
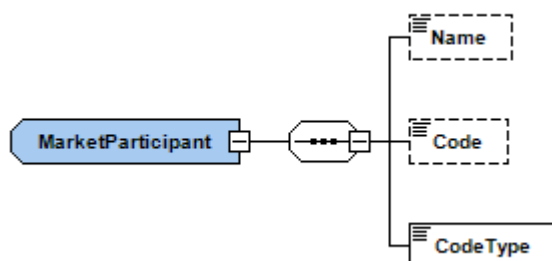| Element	Description	I	II	III	IV	V
UnavailableCapacity	Measures the capacity of the facility concerned that is affected by the event, i.e.: the capacity that will be unavailable due to the event. Length in characters num: 25	R	R	R	R	N/A
AvailableCapacity	Measures the capacity of the facility concerned that will not be affected by the event, i.e.: the capacity that will remain available. The available capacity must be expressed in absolute terms NOT in percentages. Length in characters num:: 25	R	R	R	R	N/A
EventStart	The date and time must be expressed in ISO 8601 time format using UTC time format Example: 2016-10-26T10:00:00Z	R	R	R	R	N/A
EventStop	The date and time must be expressed in ISO 8601 time format using UTC time format Example: 2016-10-28T08:05:00Z	R	R	R	R	N/A

Asset
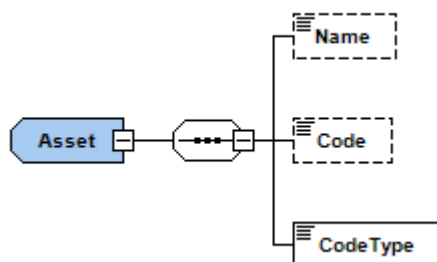
Element	Description	I	II	III	IV	V

Name	Asset name predefined by the local TSO. The asset field refers to grid components like Tie-lines.	R	N/A	R	N/A	Remit: R Transp.: N/A
Code	Asset EIC code (object type T) Example: 50TL00000000995J	R	N/A	R	N/A	Remit: R Transp.: N/A
CodeType	EIC	R	N/A	R	N/A	Remit: R Transp.: N/A

MarketParticipant

Element	Description	I	II	III	IV	V
Name	Official name of the Market participant as the registered with ACER. Length in characters num:: 300	R	R	R	R	Remit: R Transp.: N/A
Code	The field allows for identifying multiple market participant codes e.g.: a facility is associated to multiple equity holders under a joint operating agreement. Need to clarify Possible code types: • EIC - 16 characters • BIC - 11 characters • LEI - 20 characters • GS1 - 13 characters • ACER Code - 12 characters • Example: A00000069.DK	R	R	R	R	Remit: R Transp.: N/A
CodeType	Possible values: • EIC • BIC • LEI • GS1 • ACER	R	R	R	R	Remit: R Transp.: N/A

Attachments:

1) UMM XSD Schemas:
    a. schema0.xsd
    b. schema1.xsd
2) Full XSD diagram: UMMFullXDSDiagram.png
3) Example XML files: umm_xml_examples.zip