

PUBLIC

# REMIT P329 XML

## Implementation Guide

*Draft for Market Participants*

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**As Market Participants are liable for the content within their REMIT inside information messages, ELEXON's guidance is limited to that needed to help Market Participants implement the technical changes associated with P329. ELEXON is unable to provide detailed guidance on the content of any message.**

ELEXON

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# P329 REMIT XSD IMPLEMENTATION GUIDE

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## Contact information

If you have questions relating to the content in this implementation guide or P329 'Changes to REMIT inside information reporting' then please get in touch via [releases@elexon.co.uk](mailto:releases@elexon.co.uk).

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## 1 Introduction

### 1.1 Background

The Regulation on Wholesale Energy Markets Integrity and Transparency (REMIT) is an EU regulation (1227/2011) that came into force in December 2011 and is aimed at preventing market abuse in the wholesale energy markets. The Balancing Mechanism Reporting System (BMRS) is currently the GB reporting platform for publication of REMIT messages on behalf of Market Participants.

There are three methods by which REMIT data may be submitted to the BMRS:

1. Participants can submit REMIT information to National Grid's MODIS system, which in turn forwards messages to the BMRS for publication.
2. Participants can use a self-service on-line facility on the ELEXON Portal to construct (via the web UI) and submit REMIT messages to the BMRS, as well as maintain standing data relating to assets being reported upon.
3. Participants can submit REMIT messages direct to the ELEXON Portal via a web service API, which receives and validates messages and forwards them to the BMRS.

The EU REMIT Implementing Regulation No 1348/2014 came into force in December 2014 which specifies the reporting of fundamental data and data relevant to Regulation (EU) No 1227/2011. The relevance to ELEXON (BMRS) is specifically Article 10 (1), which requires exposing a web feed for provision of inside information. BSC Modification P329 was raised to make changes to the REMIT information submitted to BMRS (via MODIS or ELEXON Portal) and expose a standardised web feed from BMRS to enable the Agency for the Cooperation of Energy Regulators (ACER) to efficiently collect REMIT Inside Information. Information collected from the web feed must conform with ACER's specifications as detailed in the ACER's two XML Schema Definition (XSD)<sup>1</sup> referred to as : 'unavailabilities of electricity facilities' and 'other market information'.

Market Participants will provide inside information according to the new specifications via an updated BMRS REMIT XSD from 29 June 2017. P329 also ensures information published via BMRS website, RESTful APIs, TIBCO and Data Push Service is updated to contain the information.

### 1.2 Purpose and scope

The BMRS REMIT XSD allows Market Participants to provide REMIT inside information relating to either of ACER's XSDs and also introduces the ability to articulate an outage profile if required.

This document provides an overview of the key changes to the REMIT XSD.

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<sup>1</sup> Guidance on implementation is provided in the **ACER's** REMIT [Manual of Procedures \(MoP\) on data reporting v3.0](#).

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## 2 REMIT XSD Overview

### 2.1 Approach

The BMRS REMIT XSD for P329 has been modified to allow Market Participants to submit information that is required by ACER, which is specified in its 'Manual of Procedures (MoP) on transaction data, fundamental data and inside information reporting'. To minimise impact on Market Participants, ELEXON has used the existing BMRS REMIT XSD as a baseline and modified fields to align with ACER's requirements. BMRS will create the XML ATOM feeds from the information submitted by Market Participants in the format specified by ACER. The section below draws out some of the key differences between:

- ACER's MoP and the updated BMRS REMIT XSD; and
- The current and updated BMRS REMIT XSD

The full details of the changes are included in Section 3.

#### 2.1.1 ACER 'Unavailabilities of electricity facilities' and 'Other market information' XSD

The updated BMRS REMIT XSD caters for both paradigms ('unavailabilities of electricity facilities' and 'other market information'). ELEXON will create the suitable ATOM webfeeds based on the information provided for these two sets of REMIT inside information.

#### 2.1.2 Outage profile information

The outage profile section is new functionality which is not in the current REMIT XSD or ACER's XSDs, which are provided as part of MoP. It allows Market Participants to provide outage profiles for the period between the start and end of an outage. This is optional functionality, which has been included for scenarios where generators (e.g. nuclear) have varying available capacity due to ramping up/down over a period of time.

This profile information provides multiple interim start and end dates within an outage period. Outage profile information is captured in the updated BMRS REMIT XSD as an optional group of 'segments', and Market Participants can submit up to 200 segments.

Each segment contains a 'Start', 'End' and 'Capacity', all mandatory within the segment. These segments will be published on BMRS only as they are not currently supported by ACER's specification in the MoP.

#### 2.1.3 New Fields introduced by ACER

ACER has introduced a few new data items which were not previously included in BMRS. Some examples of these are 'UnavailableCapacity', 'Participant\_ACERRegistrationCode', 'BiddingZone' and 'UnavailabilityType'

#### 2.1.4 Format Change to align with ACER

There are some format changes which has been included and some examples include:

- 'EventType' has been replaced with ACER's new 'Type of Event' field.
- 'FuelType' valid set replaced (to aligned with Fuel Types from Transparency Regulation)
- 'EventStatus' valid set replaced
- 'mRID' is now 34 characters with additional restrictions for ELEXON Portal users
- Change in status: mandatory/optional e.g. Event Start, Event End, Affected Unit, Normal Capacity, Available Capacity

#### 2.1.5 Other Fields that differ to ACER

Some field names have been borrowed from the existing REMIT implementation or renamed. These will vary from the ACER MoP; examples include:

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- 'Cause' in the updated BMRS REMIT XSD maps to 'Reason for Unavailability' in ACER's MoP. This is borrowed from the current REMIT implementation, with the field length increasing from 50 to 500 to align with ACER.
- 'Related Information' in the updated BMRS REMIT XSD maps to 'Remarks' in ACER's MoP; borrowed from current REMIT implementation and
- 'Participant\_ACERRegistrationCode' in the updated BMRS REMIT XSD maps to 'Market Participant Code' in ACER's MoP

### 2.1.6 Fields not included from ACER's MoP

Some fields may appear missing when comparing with ACER's MoP. These will be populated by BMRS:

- ACER's MoP specifies 'Publication date/time' for its web feed. The Publication date/time is taken as the time of receipt of the message into BMRS and will be reflected in the ATOM web feed for ACER.
- ACER's MoP specifies 'Unit of measurement' for its web feed. The only value allowed for this is 'MW' so it will be pre-populated and reported in the ATOM web feed for ACER.

### 3 REMIT XML Details

The REMIT XML document comprises three groups: a Message group, 'Unavailabilities of Electricity Facilities' and 'Other Market Information'.

#### 3.1 Message Group

The items in the Message group identify the XML file as being a REMIT message and establish the unique identifier for that particular message. They are applicable to both Message Types: 'Unavailabilities of Electricity Facilities' and 'Other Market Information'. The following table highlights changes from current live implementation, as well as the related fieldname in ACER's MoP for the data items in this group.

Field name	Format	Mandatory	Valid Values	Comments	New or amended?	ACER field name Ref.	Applicable schema
Version	-	Yes	2.0	Updated version	Amended	-	Both
mRID	<16 digit EIC>-NGET-RMT-<8 Sequence Number> <b>or</b> <16 digit EIC>-ELXP-RMT-<8 digit sequence number>	Yes	-	Restricted to 34 characters. NGET-RMT is used if submitted via MODIS, ELXP-RMT is used if submitted via the ELEXON Portal. Version 1.1 of XSD makes hyphens permissible and the 8 digit	Amended	Forms part of the Message ID <sup>2</sup>	Both

<sup>2</sup> ACER's Message ID will be constructed using mRID and Revision Number. "NGET-RMT-" or "ELXP-RMT" will be removed, leaving the first 16 characters of the mRID, a hyphen, and the last 8 characters to make the 25-character "UMM thread ID". The revision number will be appended (preceded with an underscore) to complete the ACER Message ID.

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Field name	Format	Mandatory	Valid Values	Comments	New or amended?	ACER field name Ref.	Applicable schema
				sequence number is numeric only; the pattern will be  <b>[A-Z0-9-]{16}-(ELXP NGET)-RMT-[0-9]{8}</b>			
Revision Number	-	-	-	No change	n/a	Forms part of the Message ID <sup>2</sup>	Both
DocumentType	-	-	-	No change	n/a	-	Both
Sender_MarketParticipantID	-	-	-	No change	n/a	-	Both
Sender_MarketParticipantRole	-	-	-	No change	n/a	-	Both
Receiver_MarketParticipantID	-	-	-	No change	n/a	-	Both
Receiver_MarketParticipantRole	-	-	-	No change	n/a	-	Both

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Field name	Format	Mandatory	Valid Values	Comments	New or amended?	ACER field name Ref.	Applicable schema
CreatedDateTime	-	-	-	No change	n/a	-	Both

### 3.2 Unavailabilities of electricity facilities / Other market information

These groups contains all the business information required for REMIT depending on the Message Type – either UnavailabilitiesOfElectricityFacilities or OtherMarketInformation. The following table highlights changes from the current live implementation, as well as the related fieldname in ACER's MoP for the data items in these groups.

Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
MessageHeading	-	Yes	<Message Heading>	No change	n/a	-	Both
EventType	As per valid values	Yes	Production unavailability, Transmission unavailability, Consumption unavailability, Other unavailability		Amended	Type of Event	Unavailabilities of electricity facilities
UnavailabilityType	As per valid values	Yes	Planned,		New	Type of	Unavailabilities



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Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
			Unplanned			Unavailability	es of electricity facilities
Participant_MarketParticipantID	-	-	-	No change		-	Both
Participant_ACERRegistrationCode	Alphanumeric characters (various up to 20)	Yes	Various	Identifies the third party reporting on behalf of a market participant (received or provided during registration in accordance with Article 9 of Regulation (EU) No 1227/2011.	<b>New</b>	Market Participant Code	Both
AssetId	-	-	-	No change	n/a	-	
AssetType	-	-	-	No change	n/a	-	

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Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
AffectedUnit	50 alphanumeric characters	Yes	-	Size increased, now mandatory	Amended	Affected Asset or Unit	Unavailabilities of electricity facilities
AffectedUnitEIC	16 alphanumeric characters	No	-	Change in pattern mask	Amended	Affected Asset or Unit EIC code	Unavailabilities of electricity facilities
AffectedArea	-	-	-	No change	n/a	-	Both
BiddingZone	16 alphanumeric characters	Yes		This is GB, participants currently use "10YGB-----A" for submission of relevant transparency regulation (543/2013) data	New	Bidding Zone	Unavailabilities of electricity facilities
FuelType	As per valid values	No	Biomass, Fossil Brown coal/Lignite, Fossil Coal-	Valid set of values replaced.	Amended	Fuel Type	Unavailabilities of electricity facilities

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Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
			derived gas, Fossil Gas, Fossil Hard coal, Fossil Oil, Fossil Oil shale, Fossil Peat, Geothermal, Hydro Pumped Storage, Hydro Run-of-river and poundage, Hydro Water Reservoir, Marine, Nuclear, Other renewable, Solar, Waste, Wind Offshore, Wind Onshore, Other				
NormalCapacity	Decimal(13,3)	Yes		Now mandatory (known in ACER's web feed as installedCapacity)	Amended	Installed Capacity	Unavailabilities of electricity facilities

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Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
AvailableCapacity	Decimal(13,3)	Yes		Now mandatory	Amended	Available Capacity	Unavailabilities of electricity facilities
UnavailableCapacity	Decimal(13,3)	Yes		Now mandatory	New	Unavailable Capacity	Unavailabilities of electricity facilities
EventStatus	As per valid set of values	Yes	Active, Dismissed, Inactive	Valid set of values replaced.	Amended	Event Status	Both
EventStart	Current Date and Time Stamp in Zulu format	Yes		Now mandatory	Amended	Event Start	Both
EventEnd	Current Date and Time Stamp in Zulu format	Optional for Other Market Information			Amended	Event Stop	Both
OutageProfile	-	No		Note that the maximum number of segments	New	-	Both

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Field name	Format	Mandatory	Valid Values	Comments	New or amended ?	ACER MoP Ref.	Applicable schema
				permitted is currently 200.			
OutageProfileSegment.Start	Date and Time Stamp in Zulu format	Yes, if Outage Profile is provided			New	-	Both
OutageProfileSegment.End	Date and Time Stamp in Zulu format	Yes, if Outage Profile is provided			New	-	Both
OutageProfileSegment.Capacity	Decimal(13,3)	Yes, if Outage Profile is provided			New	-	Both
DurationUncertainty	-	No	-	No change	n/a	-	Both
Cause	-500 alphanumeric characters	Yes	-	Now mandatory	Amended	Reason of the Unavailability	Both
RelatedInformation	500 alphanumeric characters	No	-	Increase in size	Amended	Remarks	Both

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## 4 Transition

From 29 June 2017, all REMIT information submitted to the BMRS (via MODIS or ELEXON portal) must conform with the P329 REMIT XSD. For messages submitted before 29 June in the Pre-329 format, as long as the MRID conforms to the new XSD (34 character -[A-Z0-9]{16}-(ELXP|NGET)-RMT-[0-9]{8}), participants will be able to revise current Pre-P329 messages with the new P329 XML albeit with new fields included. For avoidance of doubt, any messages (or revisions to previous messages) submitted to BMRS after P329 go-live, on the 29 June, must conform to the P329 XSD.

If you have any questions please contact us on [releases@elexon.co.uk](mailto:releases@elexon.co.uk) for further information.