



European Network of  
Transmission System Operators  
for Electricity

# ENTSO-E TRANSPARENCY PLATFORM EB GL PROCESS IMPLEMENTATION GUIDE

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## Revision History

Version	Release	Date	Comments
0	1	2017-11-20	First draft.
0	2	2018-01-15	Second draft. Incorporated feedback from WG EDI meeting 5/12/2017 and subsequent amendments to the Bid and Balancing Market documents. For GL EB article 12.3.f, made Source optional parameter in response to review comments from WG MIT.
0	3	2018-01-18	Review in WG MIT concluded that there shall be no publication of data for reserve type FCR under GL EB article 12.3.e. Changed unit of measurement for market value in GL EB article 12.3.h. Clarified that exactly one instance of MarketProduct shall be included in document when reporting data under GL EB articles 12.3.b-e. Incorporating review comments from EDI specialist in ENTSO-E secretariat: - divisible attribute of Bid document marked as mandatory - priority attribute of Bid document renamed from Priority - added description of attributes in class Financial_Price - corrected schema reference for Bid document.
0	4	2018-02-05	Review in WG MIT concluded that there shall be no publication of data for reserve type FCR under GL EB articles 12.3.b-d.
0	5	2018-02-28	Incorporated feedback from WG EDI: Added "MOL responsible" to list of possible sender roles in dependency tables for articles 12.3.b and e. Added clarification when price related attributes are not required in dependency table for article 12.3.b. Clarified that source of procured capacity is declared at the discretion of data provider in article 12.3.f. Added explicit reference to MarketProductTypeList for the permitted values in the attribute MarketProduct. Specified that not more than one instance of MarketProduct shall be included in the document when reporting data for articles 12.3.b-f. Various other editorial corrections.
1	0	2018-03-14	Reflected decision taken in WG EDI meeting on March 5, 2018: The 0..* cardinality of class MarketProduct in Balancing and Reserve Bid Documents was replaced by two instances with cardinality 0..1; standard_MarketProduct and original_MarketProduct. For GL EB articles 12.3.b&e, symmetric direction removed from list of valid codes since reserve type FCR will not be reported under those articles. Replaced placeholders Axx, etc. with newly created codes. Reordered attributes so that they coincide with the schemas.
1	1	2018-10-12	Maintenance request EMFIP49: Amendments in response to feedback from ACER. Added reporting for GLEB article 12.3.a. Under GLEB article 12.3.b, it must be possible to distinguish linked, multipart and exclusive bids. Under GLEB article 12.3.h, it must be possible to distinguish between market values for capacity and reserves versus energy. Under GLEB article 12.3.i, available capacity shall not be reported. No longer necessary to declare bids as unshared. Maintenance request EMFIP51: When reporting balancing energy bids, it must be possible to distinguish bids converted from an integrated scheduling process. Various editorial corrections.
1	2	2019-05-09	Corrected schema references for Bid and Balancing documents. Corrected description of quantity and procurement_Price.amount in the dependency table for article 12.3.f. For articles 12.3.h&i, introduced support for aggregated reporting of market values, costs and benefits. Approved by MC.
1	3	2019-09-10	Maintenance request EMFIP58: For article 12.3.i, data may alternatively be submitted together with data for article 12.3.h instead of as an update. Costs and benefits will be conveyed by procurement_Price.amount instead of amount

			attribute. Approved by MC.
<u>1</u>	<u>4</u>	<u>2020-03-04</u>	<u>Maintenance request EMFIP62: Introduced local balancing product for articles 12.3.b, 12.3.e and 12.3.f.</u>
<u>1</u>	<u>5</u>	<u>2020-04-03</u>	<u>Maintenance request EMFIP64: Clarified description of time interval in header for articles 12.3.b and 12.3.f. Clarified use of status attribute for article 12.3.b.</u>
<u>1.</u>	<u>6</u>	<u>2021-04-20</u>	<u>Maintenance request EMFIP 67: Introduces for EB GL art. 12.3.b in dependency table chapter 4.1 additional reason codes and standard products used in ReserveBid_Marketdocument. Reordered attributes to align with schema.</u> <u>For EB GL art 12.3.e in dependency table in chapter 5.2 additional process types introduced to distinguish direct and scheduled activation for mFRR in Balancing_Marketdocument</u> <u>Approved by MC.</u>
<u>1.</u>	<u>7</u>	<u>2021-07-06</u>	<u>Maintenance request EMFIP70: For EB GL art. 12.3.f the allocation decision timestamp shall be populated and market Agreement type made optional. Corresponding updates made in dependency table, adding a general reference to the ENTSO-E codelist for additional codes for market products, as markets evolve.</u> <u>Approved by MC.</u>

## 1 Objective

The objective of this document is to enable the data providers to submit information to the ENTSO-E central transparency platform in accordance with article 12 of the Guideline on Electricity Balancing (GL EB) (EU N°2017/2195).

This implementation guide defines the information to be exchanged as required by the Transparency Platform's Business Requirements Specification.

This document provides the business context and in particular the dependency tables to be applied. The following schemas and minimum versions shall be used:

- for the Reserve Bid Document as per the CIM based ENTSO-E agreed reserve bid document and XSD version 7.1

- for the Balancing Market Document as per the CIM based standard IEC 62325-451-6 and XSD version 4.0

## 2 Publication of transparency information – use case and process sequence

Figure 1 displays the use case with the involved actors.

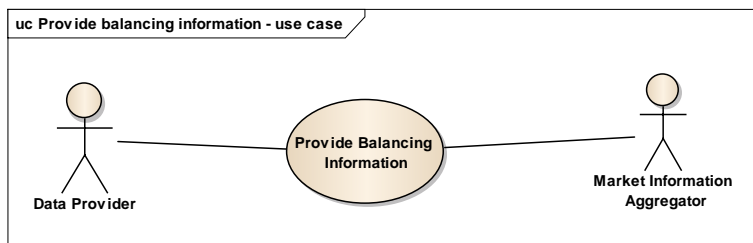


Figure 1 – Use case

The EB GL transparency process can basically be divided into four groups of information requirements; current balancing state, balancing energy bids, procured balancing capacity and allocation and use of cross-zonal capacity for the exchange of balancing capacity, energy, sharing of reserves. The sequence diagram in figure 2 outlines the information flows necessary to satisfy the identified requirements.

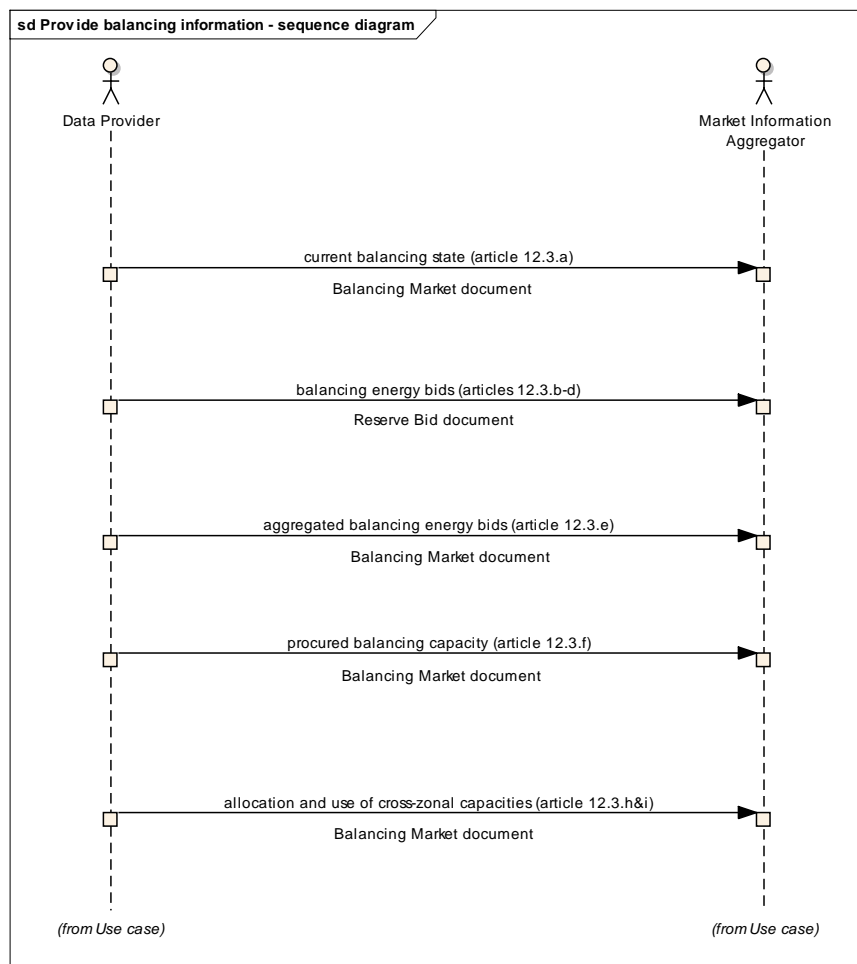


Figure 2 – Sequence diagram

Each transmission of balancing information as indicated in the sequence in figure 2 shall be transmitted in a single document. Any changes necessary to the information transmitted should be adjusted through the use of a new version of the document in question.

Following the reception of a Reserve Bid or a Balancing Market document, the acknowledgement business process as per IEC 62325-451-1 shall be applied. In particular, the Data provider shall receive an acknowledgement stating whether the document has been accepted or rejected and the reasons for the rejection.



### 3 Contextual and assembly models

The contextual and assembly models for the Reserve Bid Document are provided by the CIM based ENTSO-E agreed Reserve Bid document. The CIM compliant XSD is provided on the ENTSO-E web site. The ENTSO-E Reserve Bid Document implementation guide, also available on the ENTSO-E web site, serves as a generic reference for the concepts.

The contextual and assembly models for the Balancing Market Document are provided by the CIM standard IEC 62325-451-6. The CIM compliant XSD is provided on the ENTSO-E web site. The ENTSO-E Balancing transparency process implementation guide, also available on the ENTSO-E web site, serves as a generic reference for the concepts.

Contextual and assembly models for the acknowledgement are provided with documents described in IEC 62325-451-1. The corresponding XSD is available on the ENTSO-E web site.

### 4 Rules governing the Reserve Bid Document

#### 4.1 Reserve Bid Document dependency table

(1) For some areas and reserve types where CMOL is not used, price is not applicable.

(2) For unavailable standard RR bids up to two instances of reason (associated with timeseries) is permitted, in all other cases no more than one instance is permitted.

Table 1 below indicates which attributes must or may be used within the Reserve Bid Document when submitting data required under GL EB articles 12.3.b, 12.3.c and 12.3.d to the central transparency platform.

If a bid is withdrawn or if a bid was erroneously submitted to transparency platform, data provider must resubmit the bid in a file with a higher version number and with offered volume set to zero. The other bids that would be part of the document must also be (re)transmitted without change.

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		Use	XSD requirements
<b>ReserveBid_MarketDocument</b>			
mRID	Unique identification of the Bid Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "1"	Used	Mandatory
type	A37 = Reserve Bid document	Used	Mandatory
process.processType	A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR)	Used	Conditional Mandatory
sender_MarketParticipant.mRID	The delivery period described by the document EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator A35 = MOL responsible A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR)	Used	Mandatory
receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory

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<u>createdDateTime</u>	Date and time of document creation	Used	Mandatory
<u>reserveBid_Period.timeInterval</u> <u>sender_MarketParticipant.mRID</u>	EIC of the transmitting TSO The delivery period(s) contained within the Bid 'TimeSeries' Periods' timeIntervals within this document	Used	Mandatory
<u>sender_MarketParticipant.marketRole.type</u> <u>do_main.mRID</u>	A04 = System-Operator A35 = MOL-responsible EIC of area covered by sender	Used	Mandatory
<u>subject_MarketParticipant.mRID</u>	EIC of the transmitting TSO	Used	Mandatory
<u>subject_MarketParticipant.marketRole.type</u>	A27 = Resource Provider	Used	Mandatory
<u>domain.mRID</u>	EIC of area covered by sender	Used	Mandatory

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BidTimeSeries			
mRID	Unique identification of the bid assigned by the transmitting TSO	Used	Mandatory
<u>auction.mRID</u>	For general reference purposes only. Will not be published.	Used	Mandatory
businessType	B74 = Offer	Used	Mandatory
<u>acquiring_Domain.mRID</u>	The EIC identification of the scheduling area where the energy is going	Used	Mandatory
<u>connecting_Domain.mRID</u>	The EIC identification of the scheduling area where the energy is coming from	Used	Mandatory
<u>provider_MarketParticipant.mRID</u>		Not used	Conditional
<u>quantity_Measure_Unit.name</u>	MAW = Megawatts	Used	Mandatory
<u>currency_Unit.name</u>	currency	May be used <sup>(1)</sup>	Conditional
<u>price_Measure_Unit.name</u>	MWH = Megawatt hours	May be used <sup>(1)</sup>	Conditional
divisible	A01 = quantity may be reduced to the minimum activation quantity A02 = No reduction possible on the quantity  Attribute must be populated since it is mandatory according to the schema. However, there is no requirement to publish the attribute.	Used	Mandatory
linkedBidsIdentification	The identification used to associate bids that are to be linked together. If the bid is not linked then the attribute is not used.	May be used	Conditional
multipartBidIdentification	The identification used to associate multipart bids. If the bid is not multipart then the attribute is not used.	May be used	Conditional
exclusiveBidsIdentification	The identification used to associate exclusive bids. If the bid is not exclusive then the attribute is not used.	May be used	Conditional
blockBid		Not used	Optional
status	Used for standard products. Not used for specific or local products: A06 = Available  A11 = No longer available	May be used Used	Conditional
priority		Not used	Conditional

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<u>registeredResource.mRID</u>		Not used	Conditional
<u>flowDirection.direction</u>	A01 = UP A02 = DOWN	Used	Mandatory
stepIncrementQuantity		Not used	Conditional
energyPrice_Measure_Unit.name		Not used	Conditional
<u>connecting_Domain.mRID</u>	The EIC identification of the scheduling area where the energy is coming from	Used	Mandatory
<u>price_Measure_Unit.name</u>	MWH = Megawatt hours	May be used <sup>††</sup>	Conditional
<u>minimum_ConstraintDuration.duration</u>		Not used	Conditional
<u>currency_Unit.name</u>	currency	May be used <sup>††</sup>	Conditional
marketAgreement.type		Not used	Conditional
marketAgreement.mRID		Not used	Conditional
marketAgreement.createdDateTime		Not used	Conditional
<u>activation_ConstraintDuration.duration</u> <u>provider_MarketParticipant.mRID</u>		Not used	Conditional
<u>acquiring_Domain.mRID</u>	The EIC identification of the scheduling area where the energy is going	Used	Mandatory
<u>quantity_Measure_Unit.name</u>	MAW = Megawatts	Used	Mandatory
resting_ConstraintDuration.duration		Not used	Conditional
<u>minimum_ConstraintDuration.duration</u>		Not used	Conditional
maximum_ConstraintDuration.duration		Not used	Conditional
<u>registeredResource.mRID</u>		Not used	Conditional
<u>activation_ConstraintDuration.duration</u>		Not used	Conditional
<u>flowDirection.direction</u>	A01 = UP A02 = DOWN	Used	Mandatory
auction.mRID	For general reference purposes only. Will not be published.	Used	Mandatory
<u>validity_Period.timeInterval</u>	The period when the bid can be activated	Used	Optional
standard_MarketProduct.marketProductType	Used when the bid refers to a standard product or a specific product that has been converted into a standard product: A01 = Standard product A05 = Standard mFRR product eligible for scheduled activation only A07 = Standard mFRR product eligible for scheduled and direct activation	A01 A05 A07 May be used	Conditional
original_MarketProduct.marketProductType	Used when the bid refers to a specific product or a specific product that has been converted into a standard product: A02 = Specific product A03 = Product from integrated scheduling process Until standard and specific balancing products have been defined as foreseen under EB GL articles 25 and 26 the following value is also supported:	May be used	Conditional

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	<u>A04 = Local product</u>		
<u>validity_Period.timeInterval</u>	<u>The period when the bid can be activated</u>	<u>Used</u>	<u>Conditional</u>
<u>procuredFor_MarketParticipants</u>		<u>Not used</u>	<u>Conditional</u>
<u>sharedWith_MarketParticipants</u>		<u>Not used</u>	<u>Conditional</u>

Note: The attributes linkedBidIdentification, exclusiveBidIdentification and multipartBidIdentification are mutually exclusive and cannot be used in combination.

Period			
timeInterval	A time interval of the length of the delivery period	Used	Mandatory
resolution	PT60M PT30M PT15M	Used	Mandatory
Point			
position	Position within the time interval	Used	Mandatory
quantity.quantity	Quantity offered	Used	Mandatory
minimum_Quantity.quantity		Not used	Conditional
price.amount		Not used	Conditional
Energy_Price.amount	The price of the energy	May be used <sup>(1)</sup>	Conditional

<b>MBA_Domain (Associated with time series)</b>	Not used	Not used	<b>Conditional</b>
mRID			

<b>Reason (associated with time series)</b>	Note: This class is strictly associated with the status attribute that has the value of A11 = no longer available. <sup>(1)</sup> <u>Also see note (2) below</u>	May be used	<b>Conditional</b>
code	Refer to the ENTSO-E reason codelist for appropriate codes. For a bidTimeSeries with status = A11 (Unavailable) one of the following codes may be used to specify the activation purpose of a bid: <u>B55 = Because of redispatching</u> <u>B56 = Because of countertrading</u> <u>B57 = Because of other remedial action</u>  <u>For unavailable RR standard product bids one of the following reasons shall be declared:</u> <u>B46 = Internal congestion</u> <u>B47 = Operational security constraints</u>	Used	
text	Textual information provided by the TSO	May be used	

(3) (4) For some areas and reserve types where CMOL is not used, price is not applicable.

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(4) For unavailable standard RR bids up to two instances of reason (associated with timeseries) is permitted, in all other cases no more than one instance is permitted.

**Table 1 – Reserve Bid Document dependency table**

Reporting of data for reserve type FCR is not foreseen. For some scheduling areas and reserve types the price is not available. Therefore, the attributes currency\_Unit.name, price\_Measure\_Unit.name and Energy\_Price.amount shall be used when the price is available.

## 5 Rules governing the Balancing Market Document

### 5.1 Balancing Market Document dependency table for article 12.3.a

Table 2 below indicates which attributes must be used within the Balancing Market Document when submitting data required under GL EB article 12.3.a to the central transparency platform.

		Use	XSD requirements
<b>Balancing Market Document</b>			
mRID	Unique identification of the Balancing Market Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "1"	Used	Mandatory
type	A86 = imbalance volume	Used	Mandatory
createdDateTime	Date and time of document creation	Used	Mandatory
docStatus		Not used	Optional
controlArea_Domain.mRID	EIC of scheduling area or imbalance area described by document	Used	Optional
sender_MarketParticipant.mRID	EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator	Used	Mandatory
receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory
period.timeInterval	The time interval covered by the document	Used	Mandatory
process.processType		Used	Conditional
allocationDecision_DateAndOrTime		Not used	Optional

<b>TimeSeries</b>			
mRID	Unique identification of the time series	Used	Mandatory
businessType	B33 = Area control error	Used	Mandatory
curveType	A01 = Sequential fixed block A03 = Variable sized blocks	Used	Conditional
cancelledTS	If the data for a time series has been cancelled this attribute shall be specified with A01 = Yes	May be used	Conditional
quantity_Measure_Unit.name	MAW= Megawatt	Used	Conditional

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mktPSRType.psrType		Not used	Conditional
acquiring_Domain.mRID		Not used	Conditional
price_Measure_Unit.name		Not used	Conditional
connecting_Domain.mRID		Not used	Conditional
currency_Unit.name		Not used	Conditional
flowDirection.direction	A01 = Up, to convey the surplus A02 = Down, to convey the deficit A03 = Up and Down, when system is balanced	Used	Conditional
type_MarketAgreement.type		Not used	Conditional
standard_MarketProduct.marketProductType		Not used	Conditional
original_MarketProduct.marketProductType		Not used	Conditional

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Series_Period			
timeInterval	A time interval within the Period.timeInterval	Used	Mandatory
resolution	PT1M	Used	Mandatory

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Point			
position	Position within the time interval	Used	Mandatory
quantity	The open loop area control error	Used	Conditional
secondaryQuantity		Not used	Conditional
activation_Price.amount		Not used	Conditional
procurement_Price.amount		Not used	Conditional
min_Price.amount		Not used	Conditional
max_Price.amount		Not used	Conditional
imbalance_Price.amount		Not used	Conditional
imbalance_Price.category		Not used	Conditional
flowDirection.direction		Not used	Conditional
unavailable_Quantity		Not used	Conditional

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Financial_Price (associated with Point)		Not used	Conditional
amount		Not used	Mandatory
Direction		Not used	Conditional

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**Table 2 - Balancing Market Document dependency table (12.3.a)**

## 5.2 Balancing Market Document dependency table for article 12.3.e

Table 3 below indicates which attributes must or may be used within the Balancing Market Document when submitting data required under GL EB article 12.3.e to the central transparency platform.

		Use	XSD requirements
<b>Balancing Market Document</b>			
mRID	Unique identification of the Balancing Market Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "1"	Used	Mandatory
type	A24 = Bid document	Used	Mandatory
createdDateTime	Date and time of document creation	Used	Mandatory
docStatus		Not used	Optional
controlArea_Domain.mRID	EIC of scheduling area covered by sender	Used	Optional
sender_MarketParticipant.mRID	EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator A35 = MOL responsible	Used	Mandatory
receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory
period.timeInterval	One or several imbalance settlement periods covered by the document	Used	Mandatory
process.processType	A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR) <a href="#">A60 - Scheduled activation mFRR</a> <a href="#">A61 - Direct activation mFRR</a>	Used	Conditional
allocationDecision_DateAndOrTime	Date and time when the decision on allocation was made	Not used	Optional

<b>TimeSeries</b>			
mRID	Unique identification of the time series	Used	Mandatory
businessType	A14 = Aggregated energy data	Used	Mandatory
curveType	A01 = Sequential fixed block A03 = Variable sized blocks	Used	Conditional
cancelledTS	If the data for a time series has been cancelled this attribute shall be specified with A02 = Yes	May be used	Conditional
quantity_Measure_Unit.name	MAW= Megawatt	Used	Conditional
mktPSRType.psrType		Not used	Conditional
acquiring_Domain.mRID		Not used	Conditional
price_Measure_Unit.name		Not used	Conditional

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connecting_Domain.mRID		Not used	Conditional
currency_Unit.name		Not used	Conditional
flowDirection.direction	A01 = Up A02 = Down	Used	Conditional
type_MarketAgreement.type		Not used	Conditional
standard_MarketProduct.marketProductType	Used when the reported quantities refer to standard products: A01 = Standard product	May be used	Conditional
original_MarketProduct.marketProductType	Used when the reported quantities refer to specific products: A02 = Specific product <u>Until standard and specific balancing products have been defined as foreseen under EB GL articles 25 and 26 the following value is also supported:</u> A04 = Local product	May be used	Conditional

Series_Period			
timeInterval	A time interval of the period covered by the document	Used	Mandatory
resolution	PT60M PT30M PT15M	Used	Mandatory

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Point			
position	Position within the time interval	Used	Mandatory
quantity	The offered quantity	Used	Conditional
secondaryQuantity	The activated quantity	Used	Conditional
activation_Price.amount		Not used	Conditional
procurement_Price.amount		Not used	Conditional
min_Price.amount		Not used	Conditional
max_Price.amount		Not used	Conditional
imbalance_Price.amount		Not used	Conditional
imbalance_Price.category		Not used	Conditional
flowDirection.direction		Not used	Conditional
unavailable_Quantity	The unavailable quantity	May be used <sup>(1)</sup>	Conditional

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Financial_Price (associated with Point)		Not used	Conditional
amount		Not used	Mandatory
Direction		Not used	Conditional

<sup>(1)</sup> Unavailable quantity is applicable for standard products (as defined in GL EB) only.

Reporting of data for reserve type FCR is not foreseen.



**Table 3 - Balancing Market Document dependency table (12.3.e)**

### 5.3 Balancing Market Document dependency table for article 12.3.f

Table 3 below indicates which attributes must or may be used within the Balancing Market Document when submitting data required under GL EB article 12.3.f to the central transparency platform.

		Use	XSD requirements
<b>Balancing Market Document</b>			
mRID	Unique identification of the Balancing Market Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "1"	Used	Mandatory
type	A15 = acquiring system operator reserve schedule	Used	Mandatory
createdDateTime	Date and time of document creation	Used	Mandatory
docStatus		Not used	Optional
controlArea_Domain.mRID	EIC of scheduling area covered by transmitting TSO	Used	Optional
sender_MarketParticipant.mRID	EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator	Used	Mandatory
receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory
period.timeInterval	The delivery period covered by(s) contained within the TimeSeries' Periods' timeIntervals within this document	Used	Mandatory
process.processType	A52 = frequency containment reserve (FCR) A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR)	Used	Conditional
allocationDecision_DateAndOrTime	Date and time when the decision on allocation was made	Used/Not used	Optional

<b>TimeSeries</b>			
mRID	Unique identification of the time series	Used	Mandatory
businessType	B95 = Procured capacity	Used	Mandatory
curveType	A01 = Sequential fixed block A03 = Variable sized blocks	Used	Conditional
cancelledTS	If the data for a time series has been cancelled this attribute shall be specified with A02 = Yes	May be used	Conditional
quantity_Measure_Unit.name	MAW= Megawatt	Used	Conditional
mktPSRType.psrType	The source of the procured capacity is declared at the discretion of the data provider. A03 = Resource object (i.e. mixed) A04 = Generation A05= Load	May be used	Conditional

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acquiring_Domain.mRID		Not used	Conditional
price_Measure_Unit.name	MAW= Megawatt	Used	Conditional
connecting_Domain.mRID		Not used	Conditional
currency_Unit.name	Currency used to express the price of the capacity	Used	Conditional
flowDirection.direction	A01 = Up A02 = Down A03 = Up and Down (i.e. Symmetric)	Used	Conditional
type_MarketAgreement.type	Indicates the time horizon for which balancing capacity was procured: A01 = Daily A02 = Weekly A03 = Monthly A04 = Yearly A13 = Hourly A06 = Long term contract	UsedMay be used	Conditional
standard_MarketProduct.marketProductType	Used when the reported quantities refer to standard products: A01 = Standard product <u>Refer to MarketProductTypeList in the ENSTO-E codelist for any additional valid codes, reflecting the evolution of balancing markets.</u>	May be used	Conditional
original_MarketProduct.marketProductType	Used when the reported quantities refer to specific products: A02 = Specific product <u>Until standard and specific balancing products have been defined the following value is also supported: A04 = Local product</u> <u>Refer to MarketProductTypeList in the ENSTO-E codelist for any additional valid codes, reflecting the evolution of balancing markets.</u>	May be used	Conditional

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Series_Period			
timeInterval	A time interval of the period covered by the document	Used	Mandatory
resolution	PT60M PT30M PT15M	Used	Mandatory

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Point			
position	Position within the time interval	Used	Mandatory
quantity	The <del>offered</del> offered quantity	Used	Conditional
secondaryQuantity		Not used	Conditional
activation_Price.amount		Not used	Conditional
procurement_Price.amount	The price of the offered capacity	Used	Conditional
min_Price.amount		Not used	Conditional
max_Price.amount		Not used	Conditional
imbalance_Price.amount		Not used	Conditional
imbalance_Price.category		Not used	Conditional
flowDirection.direction		Not used	Conditional

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unavailable_Quantity		Not used	Conditional
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Financial_Price (associated with Point)		Not used	Conditional
amount		Not used	Mandatory
Direction		Not used	Conditional

**Table 4 - Balancing Market Document dependency table (12.3.f)**

#### 5.4 Balancing Market Document dependency table for article 12.3.h

Table 4 below indicates which attributes must or may be used within the Balancing Market Document when submitting data required under GL EB article 12.3.h to the central transparency platform.

		Use	XSD requirements
<b>Balancing Market Document</b>			
mRID	Unique identification of the Balancing Market Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "1"	Used	Mandatory
Type	A38 = Reserve Allocation Result Document	Used	Mandatory
createdDateTime	Date and time of document creation.	Used	Mandatory
docStatus		Not used	Optional
controlArea_Domain.mRID	EIC of control area covered by transmitting TSO EIC of region covered by transmitting market operator	Used	Optional
sender_MarketParticipant.mRID	EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator	Used	Mandatory
receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory
period.timeInterval	The delivery period covered by the document	Used	Mandatory
process.processType	A52 = frequency containment reserve (FCR) A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR)	Used	Conditional
allocationDecision_DateAndOrTime	Date and time when the decision on allocation was made	Used	Optional

<b>TimeSeries</b>			
mRID	Unique identification of the time series	Used	Mandatory
businessType	C19 = capacity allocatedA48 = Market capacity price differential <sup>(1)</sup> A47 = Market capacity price A87 = Balancing energy price	Used	Mandatory

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curveType	A01 = Sequential fixed block A03 = Variable sized blocks	Used	Conditional
cancelledTS	If the data for a time series has been cancelled this attribute shall be specified with A02 = Yes	May be used	Conditional
quantity_Measure_Unit.name	MAW= Megawatt	Used	Conditional
mktPSRType.psrType		Not used	Conditional
acquiring_Domain.mRID	EIC identification of the bidding zone where the energy is going <sup>(2)</sup>	Used	Conditional
price_Measure_Unit.name		Not used	Conditional
connecting_Domain.mRID	EIC identification of the bidding zone where the energy is coming from <sup>(2)</sup>	Used	Conditional
currency_Unit.name	Currency used to express the market value	Used	Conditional
flowDirection.direction		Not used	Conditional
type_MarketAgreement.type	Indicates the time horizon for which balancing capacity was procured: A01 = Daily. A02 = Weekly A06 = Long term contract	Used	Conditional
standard_MarketProduct.marketProductType		Not used	Conditional
original_MarketProduct.marketProductType		Not used	Conditional

Series_Period			
timeInterval	Shall be equal to period.timeInterval in the document header	Used	Mandatory
resolution	P7D P1D PT60M PT30M PT15M	Used	Mandatory

Point			
position	Position within the time interval.	Used	Mandatory
quantity	The allocated capacity volume	Used when business type=C19	Conditional
secondaryQuantity		Not used	Conditional
activation_Price.amount		Not used	Conditional
procurement_Price.amount	The market value	Used when business type=A48, A47, A87	Conditional
min_Price.amount		Not used	Conditional

max_Price.amount		Not used	Conditional
imbalance_Price.amount		Not used	Conditional
imbalance_Price.category		Not used	Conditional
flowDirection.direction		Not used	Conditional
unavailable_Quantity		Not used	Conditional

Financial_Price (associated with Point)		Use	XSD requirements
amount		Not used	Mandatory
Direction		Not used	Conditional

(1) As a transitory measure until the methodologies outlined in GL EB articles 39 through 42 have been fully implemented, a single market value may be submitted and published.

(2) When reporting aggregated market value(s) for an entire region and delivery period, the acquiring and connecting domains shall both be populated with the EIC identification of the region.

**Table 5 - Balancing Market Document dependency table (12.3.h)**

#### 5.5 Balancing Market Document dependency table for article 12.3.i

Table 5 below indicates which attributes must or may be used within the Balancing Market Document when submitting data required under GL EB article 12.3.i to the central transparency platform.

Data for article 12.3.i shall be submitted in the same document as the data for article 12.3.h or as an update of the same document. When submitted as an update, the data for article 12.3.h must also be included in the document.

		Use	XSD requirements
<b>Balancing Market Document</b>			
mRID	Unique identification of the Balancing Market Document	Used	Mandatory
revisionNumber	Initial transmission shall equal "2" or higher when data is submitted as an update to document published for article 12.3.h, otherwise equal "1".	Used	Mandatory
type	A38 = Reserve Allocation Result Document	Used	Mandatory
createdDateTime	Date and time of document creation.	Used	Mandatory
docStatus		Not used	Optional
controlArea_Domain.mRID	EIC of control area covered by transmitting TSO EIC of region covered by transmitting market operator	Used	Optional
sender_MarketParticipant.mRID	EIC of the transmitting TSO	Used	Mandatory
sender_MarketParticipant.marketRole.type	A04 = System Operator	Used	Mandatory

receiver_MarketParticipant.mRID	10X1001A1001A450 (EIC of ENTSO-E central transparency platform)	Used	Mandatory
receiver_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	Used	Mandatory
period.timeInterval	The delivery period covered by the document	Used	Mandatory
process.processType	A52 = frequency containment reserve (FCR) A51 = automatic frequency restoration reserve (aFRR) A46 = Replacement reserve (RR) A47 = Manual frequency restoration reserves (mFRR)	Used	Conditional
allocationDecision_DateAndOrTime	Date and time when the decision on allocation was made	Used	Optional

TimeSeries			
mRID	Unique identification of the time series	Used	Mandatory
businessType	B96 = used capacity A41 = Released AAC B97 = Estimated costs B98 = Estimated benefits	Used	Mandatory
curveType	A01 = Sequential fixed block A03 = Variable sized blocks	Used	Conditional
cancelledTS	If the data for a time series has been cancelled this attribute shall be specified with A02 = Yes	May be used	Conditional
quantity_Measure_Unit.name	MAW= Megawatt	Used	Conditional
mktPSRType.psrType		Not used	Conditional
acquiring_Domain.mRID	EIC identification of the bidding zone where the energy is going <sup>(1)</sup>	Used	Conditional
price_Measure_Unit.name		Not used	Conditional
connecting_Domain.mRID	EIC identification of the bidding zone where the energy is coming from <sup>(1)</sup>	Used	Conditional
currency_Unit.name	Currency used to express the estimated costs and benefits	Used	Conditional
flowDirection.direction		Not used	Conditional
type_MarketAgreement.type	Indicates the time horizon for which balancing capacity was procured: A01 = Daily. A02 = Weekly A06 = Long term contract	Used	Conditional
standard_MarketProduct.marketProductType		Not used	Conditional
original_MarketProduct.marketProductType		Not used	Conditional

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Series_Period			
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timeInterval	Shall be equal to period.timeInterval in the document header	Used	Mandatory
resolution	P7D P1D PT60M PT30M PT15M	Used	Mandatory

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Point			
position	Position within the time interval.	Used	Mandatory
quantity	The capacity volume	Used when Business Type B96,A41	Conditional
secondaryQuantity		Not used	Conditional
activation_Price.amount		Not used	Conditional
procurement_Price.amount	The estimated costs when Business Type = B97 The estimated benefits when Business Type = B98	Used when Business Type B97 or B98	Conditional
min_Price.amount		Not used	Conditional
max_Price.amount		Not used	Conditional
imbalance_Price.amount		Not used	Conditional
imbalance_Price.category		Not used	Conditional
flowDirection.direction		Not used	Conditional
unavailable_Quantity	The unavailable quantity	Not used	Conditional

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Financial_Price (associated with Point)		Use	XSD requirements
amount		Not used	Mandatory
Direction		Not used	Conditional

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(1) When reporting aggregated estimated costs and benefits for an entire region and delivery period, the acquiring and connecting domains shall both be populated with the EIC identification of the region.

Table 6 - Balancing Market Document dependency table (12.3.i)