



ENTSO-E TRANSPARENCY PLATFORM EB GL PROCESS IMPLEMENTATION GUIDE

2018-11-08

APPROVED DOCUMENT
VERSION 1.1

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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 | 2018-11-08 | 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. Approved by MC. |

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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 7.2

- for the Balancing Market Document as per the CIM based standard IEC 62325-451-6 and XSD version 4.1

2 Publication of transparency information – use case and process sequence

Figure 1 displays the use case with the involved actors.

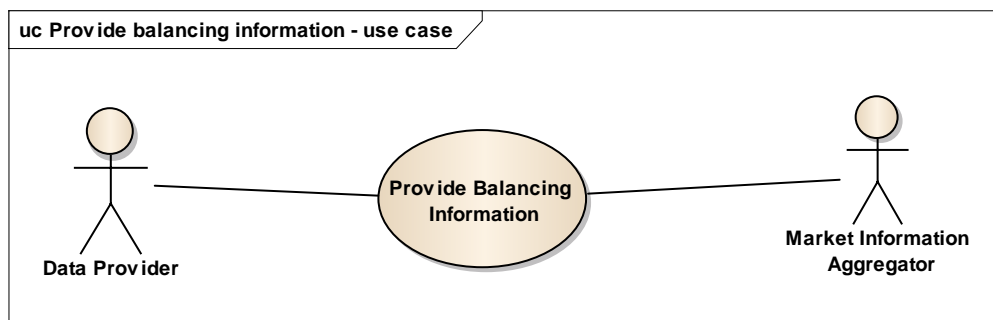


Figure 1 – Use case

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.

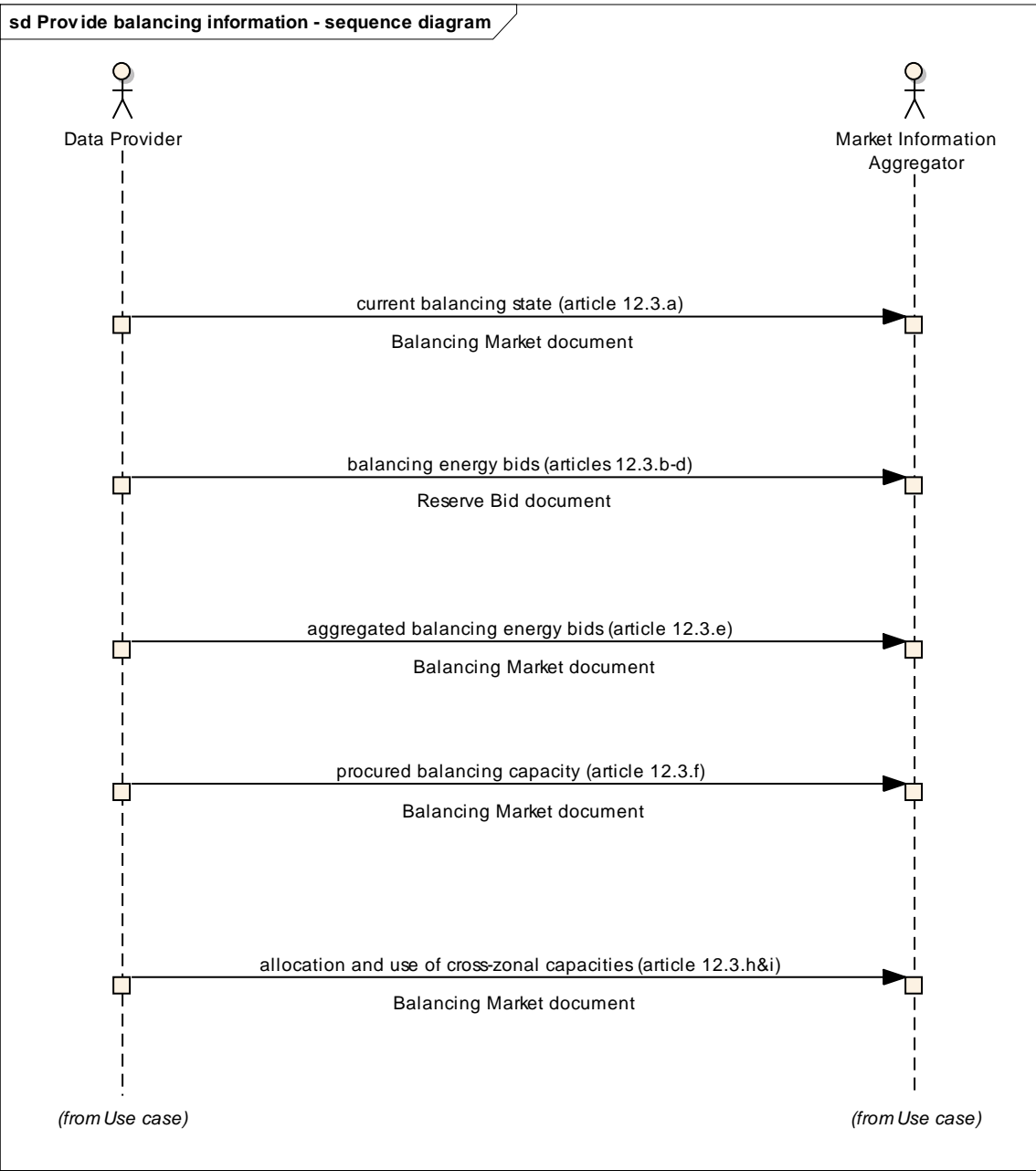


Figure 2 – Sequence diagram

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.

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.

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

| | | | |
|---|-------------------------------|------|-----------|
| subject_MarketParticipant.marketRole.type | A27 = Resource Provider | Used | Mandatory |
| domain.mRID | EIC of area covered by sender | Used | Mandatory |

| BidTimeSeries | | | |
|-------------------------------------|--|----------------------------|-------------|
| mRID | Unique identification of the bid assigned by the transmitting TSO | Used | Mandatory |
| businessType | B74 = Offer | Used | Mandatory |
| 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 | A06 = Available A11 = No longer available | Used | Conditional |
| priority | | Not used | Conditional |
| stepIncrementQuantity | | Not used | Conditional |
| energyPrice_Measure_Unit.name | | Not used | Conditional |
| connecting_Domain.mRID | The EIC identification of the scheduling area where the energy is coming from | Used | Mandatory |
| price_Measure_Unit.name | MWH = Megawatt hours | May be used ⁽¹⁾ | Conditional |
| minimum_ConstraintDuration.duration | | Not used | Conditional |
| currency_Unit.name | currency | May be used ⁽¹⁾ | Conditional |
| marketAgreement.type | | Not used | Conditional |
| marketAgreement.mRID | | Not used | Conditional |
| marketAgreement.createdDateTime | | Not used | Conditional |
| provider_MarketParticipant.mRID | | Not used | Conditional |
| acquiring_Domain.mRID | The EIC identification of the scheduling area where the energy is going | Used | Mandatory |
| quantity_Measure_Unit.name | MAW = Megawatts | Used | Mandatory |
| resting_ConstraintDuration.duration | | Not used | Conditional |
| maximum_ConstraintDuration.duration | | Not used | Conditional |

| | | | |
|--|---|-------------|-------------|
| registeredResource.mRID | | Not used | Conditional |
| activation_ConstraintDuration.duration | | Not used | Conditional |
| flowDirection.direction | A01 = UP A02 = DOWN | Used | Mandatory |
| auction.mRID | For general reference purposes only. Will not be published. | Used | Mandatory |
| validity_Period.timeInterval | 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 | 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 | May be used | Conditional |

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 ⁽¹⁾ | Conditional |

| MBA_Domain (Associated with time series) | Not used | Not used | Conditional |
|--|----------|----------|-------------|
| mRID | | | |

| Reason (associated with time series) | Note: This class is strictly associated with the status attribute that has the value of A11 = no longer available. | May be used | Conditional |
|--------------------------------------|--|-------------|-------------|
| code | Refer to the ENTSO-E reason codelist for appropriate codes. | Used | |
| text | Textual information provided by the TSO | May be used | |

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

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 |
|--|---|----------|------------------|
| Balancing Market Document | | | |
| 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 |

| TimeSeries | | | |
|----------------------------|---|-------------|-------------|
| 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 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 |
| 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 |

| 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 |

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

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 |
|--|--|----------|------------------|
| Balancing Market Document | | | |
| 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) | Used | Conditional |
| allocationDecision_DateAndOrTime | Date and time when the decision on allocation was made | Not used | Optional |

| TimeSeries | | | |
|----------------------------|---|-------------|-------------|
| 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 |

| | | | |
|--|---|-------------|-------------|
| 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 | 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 |

| 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 ⁽¹⁾ | Conditional |

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

122 ⁽¹⁾Unavailable quantity is applicable for standard products (as defined in GL EB) only.

123 Reporting of data for reserve type FCR is not foreseen.

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

125

126 5.3 Balancing Market Document dependency table for article 12.3.f

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

130

| | | Use | XSD requirements |
|--|---|----------|------------------|
| Balancing Market Document | | | |
| 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 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 | Not used | Optional |

| TimeSeries | | | |
|----------------------------|--|-------------|-------------|
| 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 |
| acquiring_Domain.mRID | | Not | Conditional |

| | | | |
|--|---|-------------|-------------|
| | | used | |
| 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 | 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 | 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 |

| Point | | | |
|--------------------------|------------------------------------|----------|-------------|
| position | Position within the time interval | Used | Mandatory |
| quantity | The procured quantity | Used | Conditional |
| secondaryQuantity | | Not used | Conditional |
| activation_Price.amount | | Not used | Conditional |
| procurement_Price.amount | The price of the procured 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 |
| unavailable_Quantity | | Not used | Conditional |

| | | | |
|---|--|----------|-------------|
| 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 |
|--|---|----------|------------------|
| Balancing Market Document | | | |
| 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 | 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 | A48 = Market capacity price differential ⁽¹⁾ A47 = Market capacity price A87 = Balancing energy price | 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 | Used | Conditional |
| price_Measure_Unit.name | | Not used | Conditional |
| connecting_Domain.mRID | EIC identification of the bidding zone where the energy is coming from | 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 |

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

| Point | | | |
|--------------------------|------------------------------------|----------|-------------|
| position | Position within the time interval. | Used | Mandatory |
| quantity | The allocated capacity volume | Used | Conditional |
| secondaryQuantity | | Not used | Conditional |
| activation_Price.amount | | Not used | Conditional |
| procurement_Price.amount | The market value | 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 |

| 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.

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 as an update to the document submitted for article 12.3.h.

| | | Use | XSD requirements |
|--|---|----------|------------------|
| Balancing Market Document | | | |
| mRID | Unique identification of the Balancing Market Document | Used | Mandatory |
| revisionNumber | Initial transmission shall equal "2" or higher, since data submitted as an update to document published for article 12.3.h. | 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 | 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 | Used | Conditional |
| price_Measure_Unit.name | | Not used | Conditional |
| connecting_Domain.mRID | EIC identification of the bidding zone where the energy is coming from | 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 | | | |
|---------------|--|------|-----------|
| timeInterval | Shall be equal to period.timeInterval in the document header | Used | Mandatory |
| resolution | PT60M PT30M PT15M | Used | Mandatory |

| 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 | | 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 | Not used | Conditional |

| Financial_Price (associated with Point) | | Use | XSD requirements |
|---|---|------------------------------------|------------------|
| amount | The estimated costs when Business Type = B97 The estimated benefits when Business Type = B98 | Used when Business Type B97 or B98 | Mandatory |
| Direction | | Not used | Conditional |

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