

BMAP 01.01 - B2B programmer guide for mFRR

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Chapter 1. History & Contact person

1.1. History

Version	Date	Changes
BMAP 01.01 Doc V1	25-06-2019	Initial version for mFRR 2020 project
BMAP 01.01 Doc V2	10-07-2019	Reviewed by Business
BMAP 01.01 Doc V3	12-07-2019	Reviewed by IT

1.2. Contact person

For any additional technical information, you can contact the following persons:

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Chapter 2. Introduction

This document is a developer guide for the use of the BMAP B2B REST API for communicating between BSP (Balancing Service Provider) and Elia with the BMAP application. This document describes the how a BSP can send its mFRR Bids using XML messages exchange.

This document is divided into four sections.

- [Using the BMAP B2B portal](#)

The first part explains how the communication interface with the B2B portal actually works. C# code samples are supplied.

- [mFRRBid process description](#)

The second part describes the process of the mFRR.

- [Messages specifications](#)

The third part is a detailed message specification.

- [Message samples](#)

The last part gives some samples of XML messages.

Chapter 3. Using the B2B portal

3.1. BMAP B2B REST API

The BMAP REST API is for the interface between Elia Web server and the client Web browser.

3.2. Description of the REST API

3.2.1. Server-side

The BMAP REST API is the programmatic interface to a defined request-response message system expressed in XML exposed via HTTPS based web server.

- HTTPS – POST method for sending mFRRBmapBidDocument
 - URI= <https://bmap.elia.be/b2B/mFRR/bid/v1> (to be confirmed)
 - Method= POST
 - ContentType = text/xml
 - Authentication using the ISOEXT login
 - Body: XML as defined in section [Reserve Bid Document protocol](#)
 - BodyResponse: XML as defined in the [mFRRBmapBidDocumentResponse](#).
- HTTPS – GET method for receiving mFRRBmapBidDocumentResponse
 - URI= <https://bmap.elia.be/b2B/mFRR/bid/v1> (to be confirmed)
 - Method= GET
 - ContentType = text/xml
 - Authentication using the ISOEXT login
 - Body: empty
 - Parameters:
 - deliveryDate: YYYY-MM-DD
 - BodyResponse: XML as defined in the [mFRRBmapBidDocumentResponse](#).

3.2.2. Client-side

Not Applicable

Chapter 4. mFRR process description

4.1. Introduction

This section describes the implementation of the B2B process for the BSP to communicate with BMAP.

4.2. Send a mFRRBmapBid message

4.2.1. The BSP initiates a mFRRBmapBidDocument to Elia.

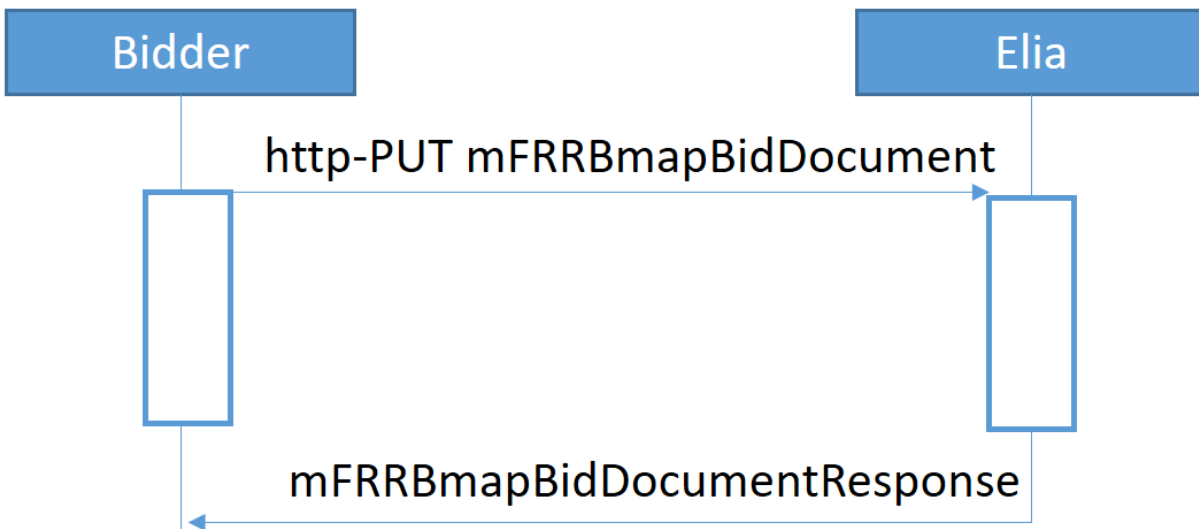
The BSP decides to generate several bids for a specific delivery date and specific contract reference. To do that he can decide to send a B2B message to the application BMAP containing the bid details.

The BSP will use an HTTP-PUT method with an XML message (as defined in [Messages specifications](#)) containing all the necessary information to push their bids into BMAP.

The message contains for each bid, the bid reference and the BidType (Flex, Standard, Non-Reserved, Standard+Non-Reserved). Then for each quarter of hour, the message specifies the volume in MW, the price in €/MW/h and the list of Delivery points associated to the bid.

The TSO replies by a response giving the result of the transaction.

The following diagram illustrates the scenario description:



4.3. Message validation

4.3.1. Description

The validation process is the process defined in the BMAP application to validate the structure and the content of the received message. mFRRBmapBidDocumentResponse will contain the result of this validation process.

4.3.2. Technical validation

4.3.2.1. XML structure validation

The received XML message mFRRBmapBidDocument will be validated through its XML structure using XSD validation. If this validation fails, the message will be rejected.

4.3.2.2. Authentication validation

It is validated at this level that authentication used by the caller is a valid one.

Based on the ISOEXT login used, BMAP application will identify the BSP with its EIC code.

4.4. Receive a mFRRBmapBidResponse message

This method can be used when the BSP needs to get the list of bids available in BMAP for a specific delivery date.

The BSP will use an HTTP-GET method by specifying the delivery date. In response the BSP will receive the same structure of XML as used for the PUT method with the list of available bids in BMAP as defined in [mFRRBmapBidDocumentResponse structure](#).

Chapter 5. Messages specifications

5.1.1. Business validation

Note: For detailed Business rules, please refer to Terms and Conditions for the mFRR Service

5.1.1.1. Delivery date Validation

Check is done to verify that the specified Delivery Date is a valid date (See error code E03 as specified in [Data structure Error: error identifier](#)).

5.1.1.2. BSP Contract validation

The specified Contract Reference value is checked with following validations (see E01 and E02 as specified in [Data structure Error: error identifier](#))

- The Contract Reference exists
- The Contract Reference is well associated to the BSP (linked to the ISOEXT login)
- The Contract Reference is valid for the delivery date

5.1.1.3. BidDirection validation

- If BSP defines BidType=Standard then Direction should be set to "Upward"
- If BSP defines BidType=Flex then the Direction should be set to "Upward"
- If BSP defines BidType=Non-Reserved then the Directions "Upward" or "Downward"
- If BSP defines BidType= Standard + NR then the Direction should be set to "Upward"
- If BSP defines IsPrequalificationBid then the direction should be set to "Upward"

See also Error codes E29 and E30 in [Data structure Error: error identifier](#)

5.1.1.4. EliaBidReference

If an EliaBidReference is specified, then the system will check if this reference exists and is consistent with the ExternalBidReference.

(see also error code as specified in [Data structure Error: error identifier](#))

5.1.1.5. Bid validations

5.1.1.5.1. Generic validations

<p>1. The updated qh shall respect the rule: $updated_QH \geq current\ time_qh + neutralization\ delay$ (see also Error code W01 as specified in Data structure Error: error identifier)</p>
<p>2. This check compares the value of the sum of the Bids volumes per QH, per mFRR type and per delivery day</p> <ul style="list-style-type: none"> • If this sum Reserved Volume is < Obligation (warning state as displayed in the BMAP Dashboard) • If this sum Reserved Volume is = Obligation (ok) • If the sum Reserved Volume is > Obligation (See also Error code W03 as specified in Data structure Error: error identifier) <p>N/A for Prequalification bids and Non-Reserved Volumes (no obligations)</p>
<p>3. Volume checks per Qh:</p> <p>Per QH: The sum of the reference powers of the delivery points included in the considered bid is greater or equal to the volume offered.</p>

<ul style="list-style-type: none"> • Validate that for each Qh of a bid of type "Providing Group (PG)" (= portfolio bid) the volume shall be: $\leq \text{sum DP mFRR max of the DP linked to the bid for reserved} + \text{non-reserved combined (entire bid)}$: (See also Error code E10 as specified in Data structure Error: error identifier) • Validate that for each Qh of a bid with a bid of type "Single Unit (SU)" (= unit-based bid) the volume shall be: $\leq \text{DP mFRR max of the DP linked to the bid}$ (see also Error code E35 as specified in Data structure Error: error identifier) • Per QH: the offered volumes are ≥ 0 (see also Error code E16 as specified in Data structure Error: error identifier) • Per QH: the offered volumes per Bid are \leq "Maximum bid size" (see also Error code E11 as specified in Data structure Error: error identifier)
<p>4. Price checks per QH (see also Error code E14 as specified in Data structure Error: error identifier)</p> <p>Upwards-Bids:</p> <ol style="list-style-type: none"> a. Price > MinIbidPrice b. Price < MaxIbidPrice <p>Downwards-Bids:</p> <ol style="list-style-type: none"> c. Price > MinDbidPrice Price < MaxDbidPrice
<ul style="list-style-type: none"> • DP exclusivity (see also Error code E08 as specified in Data structure Error: error identifier): <p>The system shall check the following DP rule per category (Standard and Flex):</p> <ul style="list-style-type: none"> • 2 bids cannot have volumes (volume > 0MW) during the same QH if some of the Delivery Points included in those 2 bids are the same. • As the DP lists can change for each QH, this rule has to be executed for each QH with the corresponding list of DP. • Rules on exclusivity are per direction. A DP can indeed be offered both for upward and downward volume as the BSP does not know in advance in which direction the imbalance will go. So mFRR STD/Flex/non-reserved UP can be offered at the same time as mFRR non-reserved DOWN • If a DP Non CIPU is used in an indivisible with volume >0, then this DP cannot be used in another indivisible bid where volume >0, regardless of the bid type. • See exceptions below per Bid (Regular, Parent-Child, Prequalification bids)
<p>5. RedZones Volume and DP Check (see also Error code W02 as specified in Data structure Error: error identifier):</p> <ul style="list-style-type: none"> • It is not allowed to change its nominations and renominate in a RedZone (Up and Down)
<p>6. Single Unit DP rule (see also Error code E26 as specified in Data structure Error: error identifier):</p> <ul style="list-style-type: none"> • When creating bids using DP(s) of type Single Unit it will not be possible to use multiple DPs in one bid. 1 bid = 1 DP= 1 unit
<p>7. Providing Group rule:</p> <ul style="list-style-type: none"> • When creating bids using DP(s) of type Providing Group then only this type of DP can be combined in one bid. It is not allowed to combine DP(s) of type Single Unit and of type Providing Group in one bid (see also Error code E27 as specified in Data structure Error: error identifier) • DPs must be chosen taking into account the bidType (Standard vs Flex): bid (see also Error code E32 as specified in Data structure Error: error identifier)

<p>8. Single Unit Price rule:</p> <ul style="list-style-type: none"> When creating bids using DP(s) of type Single Unit then no price needs to be introduced. Any introduced price value will be ignored (see also Error code W09 as specified in Data structure Error: error identifier).
<p>9. Providing Group Price rule</p> <ul style="list-style-type: none"> When creating bids using DP(s) of type Providing Group then introducing a price is mandatory bid (see also Error code E36 as specified in Data structure Error: error identifier) DPs must be chosen taking into account the bidType (Standard vs Flex): (see also Error code E32 as specified in Data structure Error: error identifier)
<p>10. Reserved + Non-Reserved combinations (see also Error code E21 as specified in Data structure Error: error identifier):</p> <ul style="list-style-type: none"> It is only allowed to add a Non-Reserved volume to a bid of type Standard+Non-Reserved and this for only 1 bid. It is not possible to add a Non-Reserved Volume to a Flex bidType.

5.1.1.5.2. Regular bid validation

<p>1. DP exclusivity:</p> <p>The system shall allow the following combinations using the same DPs with volumes >0MW:</p> <ul style="list-style-type: none"> Standard R (bid 1) + Flex R (bid 2) – OK Standard+Non-Reserved (bid1) + Flex R (bid 2) – OK Flex R (bid 1) + NR (bid 2) – OK 1 bid of bidType Standard+Non-Reserved - OK
<p>2. A regular bid can be Divisible =Y / N – to be specified by BSP per bid – mandatory (see also Error code E37 as specified in Data structure Error: error identifier)</p>
<p>3. Single Unit maximum volume check (see also Error code W08 as specified in Data structure Error: error identifier)</p> <ul style="list-style-type: none"> If the regular bid is set to divisible = N then there is a check on the maximum volume of the bid. This volume should be <Pmin This check is not blocking - a warning message will be generated
<p>4. Standard+ Non-Reserved type (see also Error code E34 as specified in Data structure Error: error identifier):</p> <ul style="list-style-type: none"> A regular bid containing a bid of type Standard+ Non-Reserved must be set to Divisible "Y".
<p>5. Providing Group maximum volume check (see also Error code E38 as specified in Data structure Error: error identifier):</p> <ul style="list-style-type: none"> When creating a bid using DP(s) of type Providing Group then the maximum volume is set to 100 MW.

5.1.1.5.3. Parent - Child bid validation

<p>1. DP exclusivity (see also Error code E39 as specified in Data structure Error: error identifier)::</p> <p>Parent-Child bids must share the same DP(s).</p> <p>The system shall allow Parent-Child bid pairs to use the same DPs with volumes >0MW.</p>
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Exclusivity of DPs applies towards other bids (see generic rule – flex/standard)

2. Parent = Indivisible (Divisible=N)
 Child = Divisible (Divisible = Y)
 (see also Error code E33 as specified in [Data structure Error: error identifier](#))

3. The following Parent-Child bid pairs can be created based on the bidType of the parent (see also Error code E22 as specified in [Data structure Error: error identifier](#)):
- When creating a child bid the same type as for the parent bid should be used for the child bid.

IF Parent type	Then Child can be
Standard	Standard
	Standard+Non-Reserved
	Non-Reserved
Flex	Flex
Standard + Non-Reserved Not possible	/
Non-Reserved	Non-Reserved

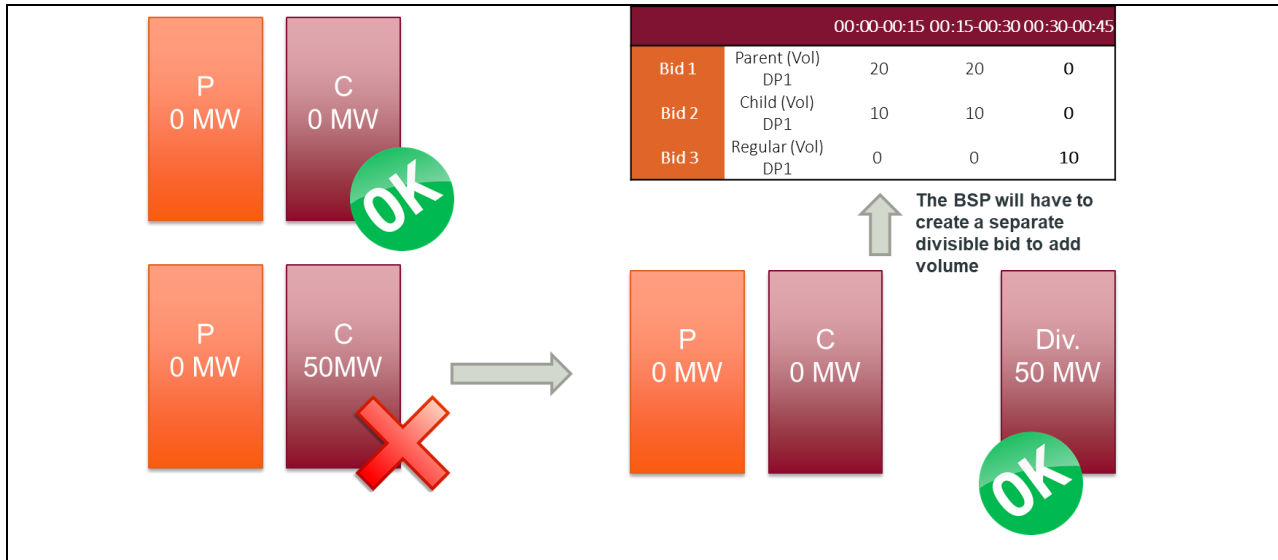
- Only if Parent is of type Standard it can be combined with a Child Standard + Non-Reserved, or a Non-Reserved.
- It is not possible to create a Parent-child pair if Parent is of type Standard+ Non-Reserved type:

See table above.

4. If in a child bid there is at least one qh with a volume >0MW, then it is allowed to enter a '0 MW' volume for certain qh(s) Child

		00:00- 00:15	00:15- 00:30	00:30- 00:45
Bid 1	Parent (Vol) DP1	20	20	20
Bid 2	Child (Vol) DP1	10	10	0

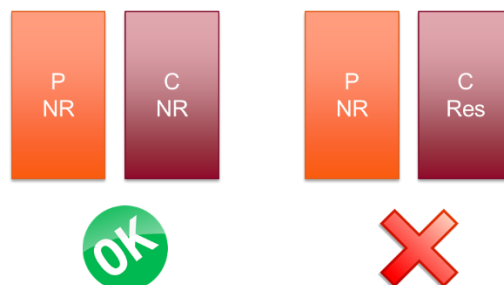
- 5.
- A Parent bid can contain a volume = 0MW if not 0MW over the whole bid. This is not blocking, the BSP will receive a warning: see also Error code W12 as specified in [Data structure Error: error identifier](#)
 - If the parent contains 0 values over the whole volume line (all qhs) then this will be blocked when submitting: see also Error code W13 as specified in [Data structure Error: error identifier](#)
 - If Parent = 0MW then child must also be 0MW. The BSP will have to create a separate regulate bid to insert a divisible volume for those qhs: see also Error code E23 as specified in [Data structure Error: error identifier](#)



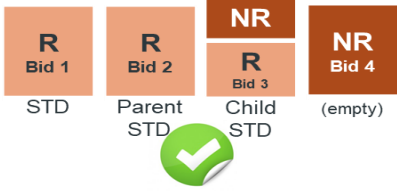
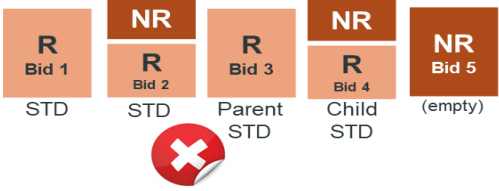
6. The **Parent** bid in a parent-child pair must be **fully Reserved** or **fully Non-Reserved**, it can't be both. You will receive an error message when saving if BSP tries to enter a volume in both fields (Reserved and Non-Reserved) - "Parent bid can only consist of a Reserved volume OR a Non-Reserved volume, it cannot contain both in one bid": (see also Error code E40 as specified in [Data structure Error: error identifier](#))



7. If the **Parent** bid consists of a **Non Reserved** volume then the **child** can only contain a **Non Reserved** volume, it cannot contain a Reserved Volume. You will receive a warning message if Parent is Non Reserved and BSP tries to enter a Reserved volume in the Child bid - "The parent bid consists of a Non Reserved volume, therefore you may not enter a Reserved volume on the Child bid" (see also Error code W06 as specified in [Data structure Error: error identifier](#))



8. Only one **combination Reserved/Non-Reserved bid per qh for STD only** ((see also Error code E24 as specified in [Data structure Error: error identifier](#))

	
9. Introduced DP(s) and Price must be the same in the Child bid as in the Parent Bid. The DP and price applies to the Parent-Child Pair, the BSP may not enter different values. (see also Error code W10 as specified in Data structure Error: error identifier)	
10. Parameter " MaximumBidSizePortfolio " of 100 MW applies to the parent-child pair if an energy bid consists of more than one delivery point (Providing Group). If the BSP enters a volume > 100 MW then a warning message will be generated - "The total volume of your parent-child bid must be ≤100MW". This is blocking and will not allow submitting the bid. (see also Error code W11 as specified in Data structure Error: error identifier)	
11. Single Unit maximum volume verification on Parent: <ul style="list-style-type: none"> The maximum volume of the parent bid in case the unit is a "Single Unit (SU)" (= unit-based bid) = Pmin. This check is not blocking - a warning message will be generated (see also Error code W08 as specified in Data structure Error: error identifier) 	

5.1.1.5.4. Prequalification bid validation

1. DP exclusivity: <u>Full</u> Exclusivity of DP also applies for Prequalification bids. In case the DP is added to a prequalification bid, this DP cannot be used for any other bid (not STD, not Flex, not Non-reserved) independently of the type of prequalification bid (STD or Flex). E.g.	<table border="1"> <thead> <tr> <th></th> <th>DP</th> <th>QH1</th> </tr> </thead> <tbody> <tr> <td>Prequalification Bid STD</td> <td>1</td> <td>5 MW</td> </tr> <tr> <td>Regular Bid STD</td> <td>1</td> <td>5 MW - NOK</td> </tr> <tr> <td>Regular Bid Flex</td> <td>1</td> <td>5 MW - NOK</td> </tr> <tr> <td>Regular NR</td> <td>1</td> <td>5 MW - NOK</td> </tr> <tr> <td>...</td> <td></td> <td></td> </tr> </tbody> </table>		DP	QH1	Prequalification Bid STD	1	5 MW	Regular Bid STD	1	5 MW - NOK	Regular Bid Flex	1	5 MW - NOK	Regular NR	1	5 MW - NOK	...		
	DP	QH1																	
Prequalification Bid STD	1	5 MW																	
Regular Bid STD	1	5 MW - NOK																	
Regular Bid Flex	1	5 MW - NOK																	
Regular NR	1	5 MW - NOK																	
...																			
See also Error code E08 as specified in Data structure Error: error identifier)																			
2. Prequalification bid flag: <ul style="list-style-type: none"> When creating a Prequalification bid the "isPrequalificationBid v" must contain the value = true 																			
3. Obligation calculation: <ul style="list-style-type: none"> Volumes used in Prequalification bids will not be used for the calculation of Reserved volume obligation 																			
4. Price rule: <ul style="list-style-type: none"> Introduced prices in Prequalification bids will be ignored. Price must be set to 0 (see also Error code W04 as specified in Data structure Error: error identifier) 																			
5. It is not possible to create a parent-child bid pair using Prequalification bids (see also Error																			

code E25 as specified in [Data structure Error: error identifier](#))

5.1.1.6. List of Delivery Points

- The list of delivery points must exist and associated to the contract (see also Error code E07 and E09 as specified in [Data structure Error: error identifier](#)).
- Only one DP per bid is allowed if DP of type Single Unit contract (see also Error code E26 as specified in [Data structure Error: error identifier](#)).

5.1.1.7. Bid details validation

- Price check:
 - price cannot be higher than the value communicated by Elia. Also bid containing DPs of type Single Unit: price will be ignored as this will not be introduced in BMAP.
(see also Error code E14 and W09 as specified in [Data structure Error: error identifier](#))
 - Reserved Volume check:
 - Minimum value is 0 (see also Error code E11 [Data structure Error: error identifier](#))
 - Value between 0 and 1 is not valid (see also Error code E16 and W09 as specified in [Data structure Error: error identifier](#))
 - Only 1 decimal is accepted (validated through XSD)
 - Check if total volume is not greater than the sum DP mFRRMax of the Delivery Points linked to the Bid (see also Error code E10 [Data structure Error: error identifier](#))
 - Check if total volume of all reserved bids for the same QH is not greater than mFRR obligation (see also Error code W03 [Data structure Error: error identifier](#))
 - NonReserved Volume check:
 - Non-Reserved volumes can be entered as a type on its own or can be entered on the same bid in combination with a Standard Reserved volume (Standard + Non-Reserved type). It shall not be possible to combine a Non-Reserved volume with a Flex type (see also Error code E28 [Data structure Error: error identifier](#))
 - Quarter Hour will be defined as Tick: Tick index: tick from 1 to 96 are valid (see also Error code E13 [Data structure Error: error identifier](#)).
 - Tick 1= 00:00 to 00:15
 - Tick 2 = 00:15to 00:30
- Remark:
- for Winter DST day change: 92 ticks
 - for Summer DST day change: 100 ticks
- Data before and within neutralization delay (3 next Quarters Hour) are ignored (see also Error code W01 [Data structure Error: error identifier](#))

- Red Zone Check: no increase of volume or no new bid can be nominated for bids having DeliveryPoint (with a mFRRmax >25MW) within a RedZone (see also Error code W02 [Data structure Error: error identifier](#))

5.2. mFRRBmapBidDocument XML structure

5.2.1. Dta structure mFRRBmapBidDocument body XML.

5.2.1.1. Synopsis

Field	Cardinality	Data type	Description
deliveryDay	Mandatory	date	The delivery Period applicable for the whole message
contractReference	Mandatory	string	Contract reference
submit	mandatory	boolean	Indicates if the current bid must be set in status "submitted" (if all validations steps return ok).
Bid	1 <= n	List of Bid	List of bid

5.2.1.2. Detailed fields information

5.2.1.2.1. Field deliveryDay

This information represents the delivery day for which the mFRRBmapBidDocument message is applicable.

Cardinality	Mandatory
Data type	date

5.2.1.2.2. Field contractReference

This information represents the contract reference like 'mFRR-xxxx-2019'.

Cardinality	Mandatory
Data type	string

5.2.1.2.3. Field Submit

This information is used to specify if all the bids and values received in the message must be set in "submitted" status.

Cardinality	Mandatory
Data type	boolean

If the message is completely validated, the status of the bid will be returned in the response to "Submitted" if this field is set to "true". If this field is set to "false", the status will be set to "Saved".

5.2.1.2.4. Field Bid

List of Bid

This information describes the list of bids sent by the BSP for the delivery day.

Cardinality	1 <= n
Data type	list of bid

5.2.2. Message parts

5.2.2.1. Data structure bid: Base information for a bid

5.2.2.1.1. Synopsis

Field	Cardinality	Data type	Description
externalBidReference	Mandatory	string	Bid id as known by the supplier.
eliaBidReference	optional	Int	Bid number as known by Elia also used for Bid Activation
bidType	Mandatory	string	Flex, Standard, Standard+NR or NR
parentExternalBidReference	Optional	string	Indicates the parent relation if applicable
deliveryPoints	1	List of deliveryPoint	List of Delivery points applicable for the bid for all QH after neutralization delay.
isPrequalificationBid	Optional	boolean	Indicates if the current Bid is a Prequalification bid or not
isDivisible	Optional	boolean	Indicates if the bid volume is divisible or not. Must be specified in case of regular bid.
direction	Mandatory	string	Indicates the direction of the bid: Upward or downward
bidDetail	92..100	List of bidDetail	List of QH containing bid details for the current bid

5.2.2.1.2. Detailed fields information

5.2.2.1.2.1 Field [eliaBidReference](#)

This information describes the Elia identifier of the bid. This is a unique number in the mFRRBmapBidDocument. If this field is specified, this means that the current bid is in "update" state and so will be modified. In that case the value must exist in our system (already sent/returned) through B2B otherwise error is generated.

For information, this is the reference used by PROBID Elia application when the bid is activated.

Cardinality	Mandatory
Data type	Int

5.2.2.1.2.2 Field externalBidReference

This information describes the BSP identifier of the bid. This is a unique identifier for BSP for the delivery date. If the reference already exists, the update of the bid will be done else an insert will be done.

Cardinality	Mandatory
Data type	string

5.2.2.1.2.3 Field bidType

This information describes the bidType used for the associated bid.

Cardinality	Mandatory
Data type	string

The following table indicates the valid values:

Value	Description
Flex	Bid type is Flex
Standard	Bid Type is Standard
Standard+Non-Reserved	Bid Type is Standard-Non-Reserved
Non-Reserved	Bid Type is a Non Reserve

5.2.2.1.2.4 Field parentExternalBidReference

This information specifies if the current bid is a child one by specifying the parent relation using the ExternalBidReference. This reference must exist in the current document or already created previously in a preceding message document.

Cardinality	Optional
Data type	string

5.2.2.1.2.5 Field isDivisible

This field indicates if the current bid is divisible or not.

Cardinality	mandatory
Data type	boolean

5.2.2.1.2.6 Field isPrequalificationBid

This field indicates if the current bid is a Prequalification Bid or not. In case of Prequalification Bid, the prices in bidDetail must be set to 0. If not, the values stored in Database will be set to 0 and a warning will sent back to the caller.

Cardinality	optional
Data type	boolean

5.2.2.1.2.7 Field direction

This information specifies if the direction of the bid.

Cardinality	mandatory
Data type	string

The following table indicates the valid values:

Value	Description
Upward	Upward direction (for all type of bids)
Downward	Downward direction (only for NR bid type)

5.2.2.1.2.8 Field List of Delivery points

This field indicates the delivery points associated to the bid. Only QH after neutralization delay will be updated according to this list.

Cardinality	1
Data type	List of DeliveryPoints

5.2.2.1.2.9 Field bidDetail

This field indicates the details of the bid for each QH. The number of QH is 96 except for DST days for which it can be 92 or 100.

Cardinality	92..100
Data type	BidDetail

5.2.3. Data structure Delivery Points

5.2.3.1. Synopsis

Field	Cardinality	Data type	Description
EAN	0..n	string	Specifies the EAN code within the list of Delivery points

5.2.3.2. Detailed fields information

5.2.3.2.1. Field EAN

This field indicates the EAN code of Delivery point associated to the bid. Only QH after neutralization delay will be updated containing this list.

Cardinality	1..n
Data type	string

5.2.4. Data structure bidDetail: Detail information for a bid

5.2.4.1. Synopsis

Field	Cardinality	Data type	Description
Tick	Mandatory	Int	Specifies the tick index for QH
price	Optional	decimal	Specifies the price per MWH (€/MW/h) . Max 2 decimal is allowed
volume	Mandatory	decimal	Specifies the power volume in MW. Max 1 decimal is allowed
NonReservedVolume	Optional	decimal	Specifies the non reserved volume if applicable for this bid. Max 1 decimal is allowed

5.2.4.2. Detailed fields information

5.2.4.2.1. Field price

This field indicates the price per MW/H for applicable for this bid. Max 2 decimals are accepted.

The value is defined as optional as it is not specified for Single Unit.

Cardinality	Optional
Data type	decimal

5.2.4.2.2. Field ReservedVolume

This field indicates the volume of power applicable for this bid.

The volume value must be either 0 or greater or equal to 1

Cardinality	mandatory
Data type	decimal

This field indicates the volume of power applicable for this bid and QH

5.2.4.2.3. Field nonReservedVolume

This field indicates the Non Reserve volume applicable for this bid.

The volume value must be either 0 or greater or equal to 1

Cardinality	mandatory
Data type	decimal

5.2.4.2.4. Field tick

This field indicates the tick index (qh index) for the value volume and price. The Tick starts from 1 to 96 (or 92...100 depending on the number of quarters during the current day).

Eg: if tick = 1 this means qh 00:00-00:15

Cardinality	mandatory
Data type	Int

5.3. mFRRBmapBidDocumentResponse structure.

5.3.1. Data structure mFRRBmapBidDocumentResponse

5.3.1.1. Synopsis

Field	Cardinality	Data type	Description
BSP	Mandatory	Partner	Identifies the BSP based on its login
DeliveryDay	Mandatory	date	
ContractReference	Mandatory	string	
BidResult	0 <= n	List of BidResult	List of bids created in BMAP with values as stored in BMAP database
error	0 <= m	Error	

5.3.1.2. Detailed Fields information

5.3.1.2.1. Field BSP

This information represents the identification of the BSP based on the login used when the mFRRBmapBidDocument has been sent.

Cardinality	Mandatory
Data type	Partner

5.3.1.2.2. Field deliveryDay

This information represents the delivery period for which the mFRRBmapBidDocument message has been accepted (or rejected).

Cardinality	Mandatory
Data type	date

5.3.1.2.3. Field contractReference

This information represents the contract reference like 'mFRR-xxxx-2015'.

Cardinality	Mandatory
Data type	string

5.3.1.2.4. Field Error

Cardinality	0 <= n
Data type	Error

5.3.1.2.5. Field BidResult

Cardinality	0 <= n
Data type	BidResult

This list the bids as stored in BMAP. This can differ from the mFRRBmapBidDocument in case of changes done in in the neutralization delay.

5.3.2. Data structure bid: Base information for a BidResult

5.3.2.1.1. Synopsis

Field	Cardinality	Data type	Description
externalBidReference	Mandatory	string	
eliaBidReference	optional	Int	
parentEliaBidReference	optional	Int	Elia Reference of the parent bid if applicable
parentExternalBidReference	optional	string	External Reference of the parent bid if applicable (as sent in the request)
status	Mandatory	string	Status of the bid after reception of the request: Submitted or Saved
isPrequalificationBid	Mandatory	boolean	Indicates if the current Bid is a Prequalification bid or not
isDivisible	Mandatory	boolean	Indicates if the bid volume is divisible or not.
direction	Mandatory	string	Indicates the direction of the bid: Upward or downward
bidType	Mandatory	string	Flex, Standard, Standard+Non-Reserved or Non-Reserved Bid type.
bidDetail	92..100	List of bidResultDetail	List of QH containing bid details for the current bid

5.3.2.1.2. Field parentEliaBidReference

This field indicates, in case of a child bid, the reference to the parent bid using the Elia Bid Reference of the parent one.

Cardinality	0..1
Data type	Int

5.3.2.1.3. Field Status

Cardinality	1
Data type	string

The following table indicates the valid values:

Value	Description
Submitted	The following bid has the status "Submitted"
Saved	The following bid has the status "Saved"

5.3.3. Data structure bidResultDetail: Detail information for a bidResult

5.3.3.1. Synopsis

Field	Cardinality	Data type	Description
price	Mandatory	decimal	Specifies the price per MWH. Max 2 decimal is allowed
volume	Mandatory	decimal	Specifies the power volume. Max 1 decimal is allowed
nonReservedVolume	Optional	decimal	Specifies the power non reserve volume. Max 1 decimal is allowed
tick	Mandatory	Int	Specifies the tick index for QH
deliveryPoints	0 <= n	List of deliveryPoint	List of Delivery point applicable for the given QH

5.4. Generic message parts

5.4.1. Data structure Partner: Partner identifier

This data structure is used to identify a partner in a transaction. It forms part of several message structures.

The fact that the code type must be specified in addition to the code itself, allows users to use their preferred code type, provided it is recognised by the system.

In addition, the identity of a partner can be indicated in words to make messages easier to read for humans.

5.4.1.1. Synopsis

Field	Cardinality	Data type	Description
name	mandatory	string	BSP Name
EIC	mandatory	string (16 characters)	EIC code

5.4.1.2. Detailed fields information

5.4.1.2.1. Field EIC

EIC code of the BSP

Cardinality	mandatory
Data type	string (16 characters)
Min len.	1

5.4.1.2.2. Field Name

Friendly name of the BSP

Cardinality	optional
Data type	string
Min len.	1

5.4.2. Data structure Error: error identifier

This data structure is used to identify the reason for message rejection. It forms part of several message structures.

5.4.2.1. Synopsis

Field	Cardinality	Data type	Description
ErrorCode	mandatory	string (3 characters)	Reason code
errorText	mandatory	string	

5.4.2.2. Detailed fields information

5.4.2.2.1. Field ErrorCode

Cardinality	mandatory
Data type	string
Len	3

The following table indicates the valid values:

Value	ErrorText	Comment
A01	Message fully accepted. All received bids are added/updated in the BMAP database	That means that bids are updated in BMAP database
A02	Message fully accepted but no change detected	That means that message XML has been accepted but nothing stored in database because no change detected.
W01	One or several submitted data do not respect the neutralization delay condition. These specific data will not be considered and stored	This means that message is accepted but some data is not stored as it is sent. See list of bid to get the details.
W02	There are increases (or new volume) defined if there is a DP in the RedZone. These specific data will not be considered and stored	
W03	If Total Reserved Nominations > Obligation -> Validation then status cannot be submitted	The nominations that were encoded, surpass the obligations and can therefore not be submitted.
W04	Warning: the price introduced for Prequalification bids will not be taken into account	The prices for Prequalification bids different of 0 will be ignore (set to 0)
W06	if Parent is Non Reserved and BSP enters a Reserved volume in the Child bid - "The parent bid consists of a Non Reserved volume, therefore you may not enter a Reserved volume on the Child bid	If the Parent bid consists of a Non Reserved volume then the child can only contain a Non Reserved volume, it cannot contain a Reserved Volume
W08	The volume you have entered is higher than the Pmin in Bid %s	Single Unit maximum volume check If the regular bid is set to divisible = N then there is a check on the maximum volume of the bid. This volume should be <Pmin
W09	DPs of type Single Unit in bid {ExternalBidReference}: the price is ignored.	
W10	Child Bid {ExternalBidReference} contains a different price as the parent {ExternalBidReference}. Price of the parent bid will be used instead	It is not allowed to define a different price for child bids compared to the parent one
W11	The total volume of your parent-child bid must be ≤100MW". Submit of parent {ExternalBidReference} and child {ExternalBidReference} is not possible	Parameter "MaximumBidSizePortfolio" of 100 MW applies to the parent-child pair if an energy bid consists of more than one delivery point (Providing Group). If the BSP enters a volume > 100 MW then a warning message will be generated -
W12	Pay attention that for some QH parent bid {Externalreference} contains a volume=0.	A Parent bid can contain a volume = 0MW if not 0MW over the whole bid. This is not blocking, the BSP will receive a warning
W13	Parent bid {Externalreference} contains 0 values over the whole volume line (all qhs) then bid cannot status cannot be submitted	If the parent contains 0 values over the whole volume line (all qhs) then this will be blocked when submitting
E00	XSD validation error {XSD error}	The input file is not validated through the XSD structure as defined in this document.
E01	Contract Reference is not linked to the user login	The login used is not related to the specified contract reference
E02	Contract Reference is not valid at the specified Delivery day	The specified contract validity dates does not cover the delivery date.
E03	Not allowed to submit bids for the specified delivery day	This means that the delivery day is in

Value	ErrorText	Comment
		the past.
E04	External Reference is not unique: {ExternalBidReference}	External Bid Reference must be unique per delivery day
E05	External Reference linked to the wrong Elia Bid Reference {ExternalBidReference}/{EliaBidReference}	The specified EliaBidReference is not linked to the specified ExternalBidReference in BMAP
E06	Bid not found with external bid reference {ExternalBidReference} and internal bid reference {EliaBidReference}	Elia Bid Reference specified does not exist in BMAP or not linked to the corresponding Bid (identified by contractReference, delivery day)
E07	Delivery Point not found for the contract {Ean}	The specified DeliveryPoint identified by its EAN is not valid for the current contractReference
E08	DP cannot be included in bids having volume > 0 MW on the same QH for Bids '{ExternalBidReference}'/{ExternalBidReference}' and QH {hh:mm}	
E09	Invalid DP list specified for bid '{ExternalBidReference}'	DP list within a bid are not known or not associated to the contract.
E10	The volume offered is greater than the sum of the reference powers of the specified delivery points for bid {BidExternalReference} at QH {hh:mm}	
E11	Offered volume must be < {Maximum bid size} for bid {ExternalBidReference} at QH {hh:mm}	
E13	Number of Ticks is not correct. Expected number of ticks {NbTicksExpected}/Received number of ticks {NbTicksReceived}	
E14	Invalid price {price} is not in range {minIBidPrice} - {maxIBidPrice} for Bid {ExternalBidReference}	
E16	It is not allowed to defined volume between 0 and 1 for Bid %ExternalBidReference	
E18	Failure during the mFRRBmapBidDocument process	Internal error occurred, contact Elia for more details.
E20	IsPrequalificationBid cannot be set because there is no valid contractt at this period	This means that there no right to defined a Prequalification bid because this is not defined in the contract.
E21	It is only allowed to add a Non-Reserved volume to a bid of type Standard+Non-Reserved and this for only 1 bid. It is not possible to add a Non-Reserved Volume to a Flex bidType	The BSP can create only one combination of R/NR Standard bid in the same bid using the same DPs
E22	Child {BidType} bid {ExternalBidReference} cannot be linked to the {BidType} parent bid {ExternalBidReference}	Following BidType combination are not allowed for parent-child relation: <ul style="list-style-type: none"> - Parent Flex and Child NR - Parent Flex and child Std+NR - Parent NR and Child Std - Parent NR and child Std+NR
E23	Child bid {ExternalBidReference} must have a volume of 0 for QH {Index} <u>Remark:</u> {Index} will be the first QH for which error has been detected	If Parent = 0MW then child must also be 0MW for the same QH
E24	Only one combination R/NR bid per qh for STD only	It is not possible to create R/NR combo for the same QH
E25	Prequalification Bid {ExternalBidReference} cannot be parent or child bid	It is not possible to create a parent-child bid pair using Prequalification

Value	ErrorText	Comment
		bids
E26	When creating bid %s using DP(s) of type Single Unit it will not be possible to use multiple DPs in one bid. 1 bid = 1 DP= 1 unit	When creating a bid using DP of type Single Unit it shall not be possible to select more than one DP per bid. 1 bid = 1 unit.
E27	Invalid DP list in bid {ExternalBidReference} contains more than one DP while at least one is with Single Unit DP type	
E28	Non Reserved volume for Flex Bid {ExternalBidReference} which is not allowed.	Flex bids are only able to nominate Reserved Volumes. This means that it shall not be possible to enter a NR volume when type Flex is selected (including parent-child scenario)
E29	Down direction for {Flex,Standard, Standard + Non-Reserved} bid {ExternalBidReference} is not allowed	
E30	Down direction for Prequalification bid {ExternalBidReference} is not allowed	
E31	DP {EAN} cannot be selected for Bid {ExternalReference} in Downward direction	When creating a bid in the downward direction the user can only select DPs available for the downward direction. DPs for the Up direction should not be selectable.
E32	DP {EAN} cannot be selected for Standard Bid {ExternalReference}	When creating a Standard bid, the user can only select DPs for which the Standard flag is defined
E33	Child bid {ExternalReference} must have IsDivisible set to true	In Parent-Child bids the parent is automatically set to indivisible and the child bid to divisible
E34	Standard combo R/NR {ExternalReference} cannot have the IsDivisible set to false	Standard+ Non-Reserved type: A regular bid containing a bid of type Standard+ Non-Reserved must be set to Divisible "Y".
E35	The volume for Bid %s is greater than the mFRR max of the SU DP	For a bid with a bid of type "Single Unit (SU)" (= unit-based bid) the volume shall be: ≤DP mFRR max of the DP linked to the bid
E36	When creating bid %s using DP(s) of type Providing Group then introducing a price is mandatory	
E37	Divisibility of regular bid %s is not specified	A regular bid can be Divisible =Y / N – to be specified by BSP per bid – mandatory
E38	The total volume of your parent-child bid must be ≤100MW	
E39	Parent bid {ExternalReference} does not have the same DP as the child bid {ExternalReference}.	DP exclusivity: Parent-Child bids must share the same DP(s).
E40	Parent bid can only consist of a Reserved volume OR a Non-Reserved volume, it cannot contain both in one bid	Parent bid in a parent-child pair must be fully Reserved or fully Non-Reserved, it can't be both.

5.4.2.2.2. Field reasonText

Reason Text

Cardinality	Mandatory
-------------	-----------

Data type	string
Min len.	1

See the list of valid ErrorCode to see the associated ErrorText.

5.5. Data types

The following table describes all the datatypes allowed in XML data structure specifications.

Data type	Typical XML representation	Lexical pattern	Comments
string		.*	The following constraints can be expressed: minimum length, maximum length, pattern, choice of valid values
int	-1, 0, 126789675, +100000	[-+]?[0-9]+	The following constraints can be expressed: minimum value, maximum value. Values must be between 2147483647 and -2147483648 inclusive.
decimal	-1.23, 12678967.543233, +100000.00, 210	[-+]?[0-9]+(\.[0-9]+)?	The following constraints can be expressed: minimum value, maximum value. Values must have at most 28 digits, with.
boolean	1, 0, true, false	1 0 true false	
code		.*	This is similar to string, but allowed values must be part of a documented "code table". The actual signification of the code table constraint is application-dependent
datetime	To indicate 1:20 pm on May the 31st, 1999 in Brussels which is 2 hours ahead of UTC, one would write: 1999-05-31T11:20:00Z	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}(:[0-9]{2}(:[0-9]{2})?)?([+-][0-9]{2}(:[0-9]{2})?)?	Represents a time instant. UTC notation is required. See also the example below for daylight saving time handling.
time	13:20:00Z	[0-9]{2}(:[0-9]{2}(:[0-9]{2})?)?([+-][0-9]{2}(:[0-9]{2})?)?	Represents a time instant in the day. UTC notation is required. See also the example below for daylight saving time handling.
date	To indicate May the 31st, 1999, one would write: 1999-05-31	[0-9]{4}-[0-9]{2}-[0-9]{2}	Represents a calendar date.
Period	2015-04-01/2015-04-30	[0-9]{4}-[0-9]{2}-[0-9]{2}/[0-9]{4}-	Represent the start date and an end date.

Data type	Typical XML representation	Lexical pattern	Comments
		[0-9]{2}-[0-9]{2}	
binary		Encoded binary data (the default encoding is base64)	Used to transfer data that is not unicode text.

Chapter 6. Sample message

6.1. mFRRBmapBidDocument.

```

<?xml version="1.0" encoding="UTF-8"?>
<mFRRBmapBidDocument>
  <deliveryDay v="2016-06-13" />
  <contractReference v="mFRR-012-2016" />
  <submit v="true" />
  <bid>
    <externalBidReference v="2" />
    <eliaBidReference v="1" />
    <bidType v="Flex" />
    <parentExternalBidReference v="1" />
    <!-- flex-->
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
    <isPrequalificationBid v="false"/>
    <isDivisible v="true"/>
    <direction v="Upward"/>
    <bidDetail>
      <tick v="1"/>
      <price v="32.45" />
      <volume v="107.0" />
      <NonReservedVolume v="0" />
    </bidDetail>
    <bidDetail>
      <tick v="2"/>
      <price v="32.45" />
      <volume v="107.0" />
      <NonReservedVolume v="0" />
    </bidDetail>
    <bidDetail>
      <tick v="3"/>
      <price v="32.45" />
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    </bidDetail>
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    </bidDetail>
    <bidDetail>
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    </bidDetail>
    <bidDetail>
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      <price v="32.45" />
      <volume v="107.0" />
    </bidDetail>
  </bid>

```

```
        <NonReservedVolume v="0" />
</bidDetail>
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    <tick v="8"/>
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    <NonReservedVolume v="0" />

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  <NonReservedVolume v="0" />
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<bidDetail>
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  <NonReservedVolume v="0" />
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  <price v="32.45" />
  <volume v="107.0" />
  <NonReservedVolume v="0" />
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<bidDetail>
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  </bidDetail>
  <bidDetail>
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    <volume v="107.0" />
    <NonReservedVolume v="0" />
  </bidDetail>
</bid>
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```

6.2. mFRRBmapBidDocumentmFRRBmapBidDocumentResponse

6.2.1. Bid Response without error

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<?xml version="1.0" encoding="UTF-8"?>
<mFRRBmapBidDocumentmFRRBmapBidDocumentResponse>
  <BSP>
    <Name v="EDF Luminus" />
    <EIC v="1234" />
  </BSP>
  <deliveryDay v="2016-06-13" />
  <contractReference v="mFRR-012-2016" />
  <bid>
    <externalBidReference v="2" />
    <eliaBidReference v="2" />
    <bidType v="Flex" />
    <parentExternalBidReference v="1"/>
    <parentEliaBidReference v="1"/>
    <isPrequalificationBid v="false"/>
    <isDivisible v="false"/>
    <direction v="Upward"/>
    <status v="Submitted" />
    <bidDetail>
      <tick v="1"/>
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      <nonReservedVolume v="0" />
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        <EAN v="511453198597615955" />
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    <bidDetail>
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    </bidDetail>
    <bidDetail>
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  </bid>
</mFRRBmapBidDocumentmFRRBmapBidDocumentResponse>

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  <nonReservedVolume v="0" />
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  </deliveryPoints>
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</bidDetail>
<bidDetail>
  <tick v="68"/>
  <price v="32.45" />
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    <nonReservedVolume v="0" />
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      <EAN v='511453198597615955' />
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    </deliveryPoints>
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    </deliveryPoints>
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    </deliveryPoints>
  </bidDetail>

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        </deliveryPoints>
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    <bidDetail>
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        <price v="32.45" />
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      <EAN v='511453198597615955' />
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  </bidDetail>
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    <nonReservedVolume v="0" />
    <deliveryPoints>
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      <EAN v='511453198597615955' />
    </deliveryPoints>
  </bidDetail>
</bid>
</mFRRBmapBidDocumentmFRRBmapBidDocumentResponse>

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6.2.1. Bid Response with errors

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<?xml version="1.0" encoding="UTF-8"?>
<mFRRBmapBidDocumentmFRRBmapBidDocumentResponse>
  <BSP>
    <Name v="EDF Luminus" />
    <EIC v="1234" />
  </BSP>
  <deliveryDay v="2016-06-13" />
  <contractReference v="mFRR-0xx-2016" />
  <error>
    <errorCode v="E01"/>
    <errorText v="Contract Reference is not linked to the user login"/>
  </error>
</mFRRBmapBidDocumentmFRRBmapBidDocumentResponse>

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