

BMAP 01.01 - B2B programmer guide for R3 Non CIPU

Version 02
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Chapter 1. History & Contact person

1.1. History

Version	Date	Changes
BMAP 01.01 Doc V1	25-07-2017	Initial version
BMAP 01.01 Doc V2	29-08-2017	Version after internal Elia review

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 R3NonCipu Bids. This is done using the process "R3NonCipuBid" using XML messages exchange.

This document is organized into four sections.

- [Using the Star B2B portal](#)

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

- [R3Bid process description](#)

The second part describes the process of the R3NonCipuBid.

- [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 – PUT method for sending R3NonCipuBidDocument
 - o URI= to be defined (<https://bmap.elia.be/b2B/R3NonCipu/bid/v1>)
Note: the URI address can be modified and so will be transmitted if applicable
 - o Method= PUT
 - o ContentType = text/xml
 - o Authentication using the ISOEXT login
 - o Body: XML as defined in section [Reserve Bid Document protocol](#)
 - o BodyResponse: XML as defined in the [R3BidDocumentResponse](#).

3.2.2. client-side

Not Applicable

Chapter 4. R3NonCipuBid process description

4.1. Introduction

This section describes how B2B process to communicate with BMAP is implemented concerning in order for the BSP to send bids to ELIA BMAP system.

4.2. Send a R3NonCipuBid message

4.2.1. The BSP initiates a R3NonCipuBidDocument to Elia.

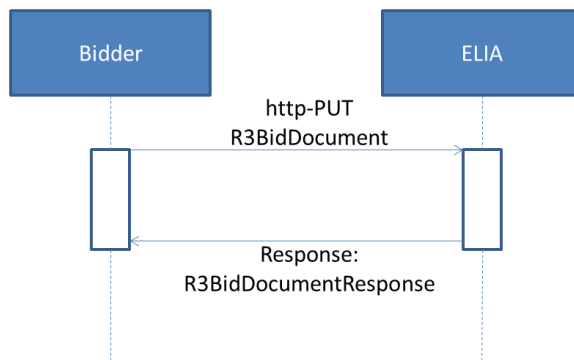
The BSP decides to generate several bids for a specific delivery date and specific contract reference. To do that he can decide to send a B2B message to the application BMAP containing the bid details.

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 R3Type (Flex or Standard). Then for each quarter of hour, the message specifies the volume, the price per 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 process.

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. R3NonCipuBidDocumentResponse will contains the result of this validation process

4.3.2. Technical validation

4.3.2.1. XML structure validation

The received XML message R3NonCipuBidDocument will be validated through its XML structure using XSD validation. If this validation fails, the message will be rejected.



R3NonCipuBid_v1.xsd

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.

4.3.3. Business validation

Note: For detailed Business rules, please refer to B3 Non-CIPU contract

4.3.3.1. Delivery date Validation

Check is done to verify that BSP can supply bid at the specified Delivery Date.

4.3.3.2. BSP Contract validation

The specified Contract Reference value is checked with following validations

- 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

4.3.3.3. R3Type validation

The check consists to verify that the provided R3Type is valid for the contract at the delivery date

4.3.3.4. EliaBidReference

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

4.3.3.5. List of Delivery Points

The list of delivery points must exist and associated to the contract.

4.3.3.6. Bid details validation

- Price check: price must be equal to 0.00
- Volume check:
 - Minimum value is 0
 - Value between 0 and 1 are not valid
 - Only 1 decimal is accepted
 - Check if total volume is not greater than the sum RRef of the Delivery Points linked to the Bid

- Check if total volume of all bids for the same QH is not greater than Volume obligation
- Tick index: tick from 1 to 96 are valid.
 - Remark:
 - for Winter DST day change: 92 ticks
 - for Summer DST day change: 100 ticks
- Data before and within neutralization delay are ignored
- Red Zone Check: no increase of volume can be nominated for bids having DeliveryPoint within a RedZone.

Commented [SR1]: Also: Not allowed to create a new bid with a DP in a RedZone

Chapter 5. Messages specifications

5.1. R3NonCipuBidDocument XML structure

5.1.1. Data structure R3BidDocument body XML.

5.1.1.1. 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

5.1.1.2. Detailed fields information

5.1.1.2.1. Field deliveryDay

This information represents the delivery day for which the R3NonCipuBidDocument message is applicable.

Cardinality	Mandatory
Data type	date

5.1.1.2.2. Field contractReference

This information represents the contract reference like 'R3-xxxx-2015'.

Cardinality	Mandatory
Data type	string

5.1.1.2.3. Field Submit

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

If the message is completely validated, the status of the bid will be set to "Submitted" if this field is set to "true". If this field is set to "false", the status will be set to "Saved" and that status to "Submitted" can be set manually through the web interface of BMAP.

5.1.1.2.4. 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

5.1.2. Message parts

5.1.2.1. Data structure bid: Base information for a bid

5.1.2.1.1. Synopsis

Field	Cardinality	Data type	Description
EliaBidReference	optional	Int	
ExternalBidReference	Mandatory	string	
R3Type	Mandatory	string	Flex or Standard R3 type product
deliveryPoints	1 <= n	List of deliveryPoint	List of Delivery point applicable for the given QH
bidDetail	92..100	List of bidDetail	List of QH containing bid details for the current bid

5.1.2.1.2. Detailed fields information

5.1.2.1.2.1 Field EliaBidReference

This information describes the Elia identifier of the bid. This is a unique number in the R3NonCipuBidDocument. 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 otherwise error is generated.

Cardinality	Mandatory
Data type	Int

5.1.2.1.2.2 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

5.1.2.1.2.3 Field R3Type

This information describes the R3Type used for the associated bid.

Cardinality	Mandatory
Data type	string

The following table indicates the valid values:

Value	Description
Flex	R3 type is Flex
Standard	R3 Type is Standard

5.1.2.1.2.4 Field List of Delivery points

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

Cardinality	1
Data type	List of DeliveryPoints

5.1.2.1.3. 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

5.1.3. Data structure Delivery Points

5.1.3.1. Synopsis

Field	Cardinality	Data type	Description
EAN	1..n	string	Specifies the EAN code within the list of Delivery points

5.1.3.2. Detailed fields information

5.1.3.2.1. 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

5.1.4. Data structure bidDetail: Detail information for a bid

5.1.4.1. 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
Tick	Mandatory	Int	Specifies the tick index for QH

5.1.4.2. Detailed fields information

5.1.4.2.1. Field price

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

The price value must be 0.00 at this stage. If not specified, value 0.00 is set.

Cardinality	Optional
Data type	decimal

5.1.4.2.2. Field volume

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. R3NonCipuBidDocumentResponse structure.

5.2.1. Data structure R3NonCipuBidDocumentResponse

5.2.1.1. XSD structure

The structure can be found in the following XSD:



R3NonCipuBidResponse_v1.xsd

5.2.1.2. Synopsis

Field	Cardinality	Data type	Description
BSP	Mandatory	Partner	Identifies the BSP based on its login
DeliveryDay	Mandatory	date	
bidDocumentStatus	Mandatory	boolean	Indicates if the R3NonCipuBidDocument has been accepted or not
BidResult	0 <= n	List of BidResult	List of bids created in BMAP with values as stored in BMAP database
error	0 <= m	Error	

5.2.1.3. Detailed Fields information

5.2.1.3.1. Field BSP

This information represents the identification of the BSP based on the login used when the R3NonCipuBidDocument has been sent.

Cardinality	Mandatory
Data type	Partner

5.2.1.3.2. Field deliveryDay

This information represents the delivery period for which the R3NonCipuBidDocument message has been accepted (or rejected).

Cardinality	Mandatory
Data type	date

5.2.1.3.3. Field Status

If the R3NonCipuBidDocument is accepted, this field will return "Submitted" or "Saved" depending on the submit field sent in R3NonCipuBidDocument.

Cardinality	Mandatory
Data type	String

The following table indicates the valid values:

Value	Description
Saved	All bids received are in 'Saved' status in BMAP
Submitted	All bids received are in 'Submitted' status in BMAP
Rejected	Message has been rejected and so no update/insert has been performed in BMAP.

5.2.1.3.4. Field Error

Cardinality	0 <= n
Data type	Error

This contains the reason of rejected R3NonCipuBidDocument (if Status='Rejected').

5.2.1.3.5. Field BidResult

Cardinality	0 <= n
Data type	BidResult

This list the bids as stored in BMAP. This can differ from the R3NonCipuBidDocument in case of changes done in the neutralization delay.

5.2.2. Data structure bid: Base information for a BidResult

5.2.2.1.1. Synopsis

Field	Cardinality	Data type	Description
EliaBidReference	optional	Int	
ExternalBidReference	Mandatory	string	
R3Type	Mandatory	string	Flex or Standard R3 type product
bidDetail	92..100	List of bidResultDetail	List of QH containing bid details for the current bid

5.2.3. Data structure bidResultDetail: Detail information for a bidResult

5.2.3.1. 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
Tick	Mandatory	Int	Specifies the tick index for QH
deliveryPoints	1 <= n	List of deliveryPoint	List of Delivery point applicable for the given QH

5.3. Generic message parts

5.3.1. Data structure Partner: Partner identifier

XML Namespace: <http://www.elia.be/namespaces/public/Star/b2bmsg>

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.

5.3.1.1. Synopsis

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

5.3.1.2. Detailed fields information

5.3.1.2.1. Field EIC

Code

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

5.3.1.2.2. Field Name

Friendly name

Cardinality	optional
Data type	string
Min len.	1

5.3.2. Data structure Error: error identifier

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

5.3.2.1. Synopsis

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

5.3.2.2. Detailed fields information

5.3.2.2.1. 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
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.
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 there is no obligation for that day and so no bid can be submitted at the delivery date
E04	External Reference is not unique: {ExternalBidReference}	External Bid Reference must be unique
E05	External Reference linked to the wrong Elia Bid Reference {ExternalBidReference}/{EliaBidReference}	The specified EliaBidReference is not linked to the specified ExsternalBidReference in BMAP
E06	Invalid Elia 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	Incorrect DP EAN {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}	

Value	ErrorText	Comment
E12	It is not allowed to increase volume for bid having DeliveryPoint in RedZone for bid {BidExternalReference} at QH {hh:mm}	
E13	Number of Ticks is not correct. Expected number of ticks {NbTicksExpected}/Received number of ticks {NbTicksReceived}	

5.3.2.2.2. Field reasonText

Reason Text

Cardinality	Mandatory
Data type	string
Min len.	1

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

5.4. 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]{1,28}(\.[0-9]{1,28})?	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	[0-9]{4}-[0-9]{2}-[0-9]{2}T[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.

Data type	Typical XML representation	Lexical pattern	Comments
	write: 1999-05-31T11:20:00Z	<code>[0-9]{2}(:[0-9]{2})??</code>	
time	13:20:00Z	<code>[0-9]{2}(:[0-9]{2})?([+][0-9]{2}(:[0-9]{2})?)?</code>	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	<code>[0-9]{4}-[0-9]{2}-[0-9]{2}</code>	Represents a calendar date.
Period	2015-04-01/2015-04-30	<code>[0-9]{4}-[0-9]{2}-[0-9]{2}/[0-9]{4}-[0-9]{2}-[0-9]{2}</code>	Represent the start date and an end date.
binary		Encoded binary data (the default encoding is base64)	Used to transfer data that is not unicode text.

Chapter 6. Sample message

6.1. R3NonCipuBidDocument.

```
<?xml version="1.0" encoding="UTF-8"?>
<R3NonCipuBidDocument>
  <deliveryDay v="2016-06-13" />
  <contractReference v="R3NonCipu-012-2016" />
  <submit v="true" />
  <bid>
    <ExternalBidReference v="1" />
    <EliaBidReference v="1" />
    <R3Type v="Flex" /> <!-- flex-->
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
    <bidDetail>
      <tick v="1"/>
      <price v="32.45" />
      <volume v="107.0" />
    </bidDetail>
    <bidDetail>
      <tick v="2"/>
      <price v="32.45" />
      <volume v="107.0" />
    </bidDetail>
    <bidDetail>
      <tick v="3"/>
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    <bidDetail>
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      <price v="32.45" />
      <volume v="107.0" />
    </bidDetail>
    <bidDetail>
      <tick v="5"/>
      <price v="32.45" />
      <volume v="107.0" />
    </bidDetail>
  </bid>
</R3NonCipuBidDocument>
```

```
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    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="42"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="43"/>
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    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="44"/>
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    <volume v="107.0" />
</bidDetail>
<bidDetail>
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        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="46"/>
        <price v="32.45" />
```

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</bidDetail>
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  <tick v="47"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
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    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
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  <volume v="107.0" />
</bidDetail>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
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    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="54"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
```

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  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="56"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
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  <volume v="107.0" />
</bidDetail>
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  <tick v="60"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="61"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="62"/>
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  <volume v="107.0" />
</bidDetail>
```

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<bidDetail>
  <tick v="64"/>
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  <volume v="107.0" />
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<bidDetail>
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    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
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    <price v="32.45" />
  <volume v="107.0" />
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<bidDetail>
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  <volume v="107.0" />
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<bidDetail>
  <tick v="69"/>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="70"/>
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  <volume v="107.0" />
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```
<tick v="71"/>
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  <tick v="72"/>
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  <volume v="107.0" />
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  <volume v="107.0" />
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  <tick v="76"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="77"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="78"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="79"/>
```

```
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    <volume v="107.0" />
</bidDetail>
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    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="81"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
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        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="83"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="84"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="85"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="86"/>
        <price v="32.45" />
    <volume v="107.0" />
</bidDetail>
<bidDetail>
    <tick v="87"/>
        <price v="32.45" />
```



```
<volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="88"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="89"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="90"/>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="91"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="92"/>
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  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="93"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="94"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
<bidDetail>
  <tick v="95"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
```

```
</bidDetail>
<bidDetail>
  <tick v="96"/>
    <price v="32.45" />
  <volume v="107.0" />
</bidDetail>
</bid>
</R3NonCipuBidDocument>
```

6.2. R3BidDocumentResponse

6.2.1. Bid Response without error

```
<?xml version="1.0" encoding="UTF-8"?>
<R3NonCipuBidDocumentResponse>
  <BSP>
    <Name v="name of the BSP" />
    <EIC v="1234" />
  </BSP>
  <deliveryDay v="2016-06-13" />
  <contractReference v="R3NonCipu-XXX-2016" />
  <status v="Submitted" />
  <bid>
    <ExternalBidReference v="1" />
    <EliaBidReference v="1" />
    <R3Type v="Flex" /> <!-- flex-->
    <bidDetail>
      <tick v="1"/>
      <price v="32.45" />
      <volume v="107.0" />
      <deliveryPoints>
        <EAN v="511453198597615953" />
        <EAN v="511453198597615955" />
      </deliveryPoints>
    </bidDetail>
  </bid>
  <bidDetail>
    <tick v="2"/>
    <price v="32.45" />
    <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
  </bidDetail>
</R3NonCipuBidDocumentResponse>
```

```
        </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="3"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="4"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="5"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="6"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="7"/>
    <price v="32.45" />
```

```
<volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="8"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="9"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="10"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="11"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
```

```
</bidDetail>
<bidDetail>
  <tick v="12"/>
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  <volume v="107.0" />
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="13"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="14"/>
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  <volume v="107.0" />
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  </deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="16"/>
    <price v="32.45" />
  <volume v="107.0" />
```

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  <EAN v='511453198597615955' />
</deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="17"/>
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  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="18"/>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
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  <volume v="107.0" />
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
```

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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
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  <tick v="22"/>
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  <volume v="107.0" />
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    <EAN v='511453198597615955' />
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  </deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="25"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
```



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<EAN v='511453198597615955' />
</deliveryPoints>
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<EAN v='511453198597615955' />
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</deliveryPoints>
</bidDetail>
<bidDetail>
```



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<tick v="30"/>
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  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="31"/>
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  <volume v="107.0" />
    <deliveryPoints>
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      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
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  <volume v="107.0" />
    <deliveryPoints>
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      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
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    <price v="32.45" />
  <volume v="107.0" />
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      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
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  <tick v="34"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
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```

```
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    <EAN v='511453198597615955' />
  </deliveryPoints>
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    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="37"/>
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  <volume v="107.0" />
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    <EAN v='511453198597615955' />
  </deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
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  <tick v="39"/>
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```
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<volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="40"/>
    <price v="32.45" />
    <volume v="107.0" />
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        <EAN v='511453198597615955' />
      </deliveryPoints>
    </bidDetail>
  <bidDetail>
    <tick v="41"/>
      <price v="32.45" />
      <volume v="107.0" />
        <deliveryPoints>
          <EAN v='511453198597615953' />
          <EAN v='511453198597615955' />
        </deliveryPoints>
      </bidDetail>
    <bidDetail>
      <tick v="42"/>
        <price v="32.45" />
        <volume v="107.0" />
          <deliveryPoints>
            <EAN v='511453198597615953' />
            <EAN v='511453198597615955' />
          </deliveryPoints>
        </bidDetail>
      <bidDetail>
        <tick v="43"/>
          <price v="32.45" />
          <volume v="107.0" />
            <deliveryPoints>
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              <EAN v='511453198597615955' />
            </deliveryPoints>
          </bidDetail>
        </bidDetail>
      </bidDetail>
    </bidDetail>
  </bidDetail>
</bidDetail>
```

```
        </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="44"/>
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  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="45"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
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<bidDetail>
  <tick v="46"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="47"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="48"/>
    <price v="32.45" />
```

```
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="49"/>
  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="50"/>
  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="51"/>
  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="52"/>
  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
```

```
</bidDetail>
<bidDetail>
  <tick v="53"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="54"/>
    <price v="32.45" />
  <volume v="107.0" />
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="55"/>
    <price v="32.45" />
  <volume v="107.0" />
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="56"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="57"/>
    <price v="32.45" />
  <volume v="107.0" />
```

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<deliveryPoints>
  <EAN v='511453198597615953' />
  <EAN v='511453198597615955' />
</deliveryPoints>
</bidDetail>
<bidDetail>
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  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="59"/>
  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
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  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
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  <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
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  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="63"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="64"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="65"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="66"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
```



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<EAN v='511453198597615955' />
</deliveryPoints>
</bidDetail>
<bidDetail>
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  <price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
<tick v="68"/>
  <price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
<tick v="69"/>
  <price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
<tick v="70"/>
  <price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
```

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<tick v="71"/>
  <price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="72"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="73"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="74"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="75"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
```

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<EAN v='511453198597615955' />
</deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="76"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="77"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="78"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="79"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="80"/>
```

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<price v="32.45" />
<volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="81"/>
    <price v="32.45" />
    <volume v="107.0" />
      <deliveryPoints>
        <EAN v='511453198597615953' />
        <EAN v='511453198597615955' />
      </deliveryPoints>
    </bidDetail>
  <bidDetail>
    <tick v="82"/>
      <price v="32.45" />
      <volume v="107.0" />
        <deliveryPoints>
          <EAN v='511453198597615953' />
          <EAN v='511453198597615955' />
        </deliveryPoints>
      </bidDetail>
    <bidDetail>
      <tick v="83"/>
        <price v="32.45" />
        <volume v="107.0" />
          <deliveryPoints>
            <EAN v='511453198597615953' />
            <EAN v='511453198597615955' />
          </deliveryPoints>
        </bidDetail>
      <bidDetail>
        <tick v="84"/>
          <price v="32.45" />
          <volume v="107.0" />
            <deliveryPoints>
              <EAN v='511453198597615953' />
              <EAN v='511453198597615955' />
            </deliveryPoints>
          </bidDetail>
        </bidDetail>
      </bidDetail>
    </bidDetail>
  </bidDetail>
</bidDetail>
```

```
        </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="85"/>
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  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="86"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="87"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="88"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="89"/>
    <price v="32.45" />
```

```
<volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="90"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="91"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="92"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="93"/>
    <price v="32.45" />
  <volume v="107.0" />
    <deliveryPoints>
      <EAN v='511453198597615953' />
      <EAN v='511453198597615955' />
    </deliveryPoints>
```

```
</bidDetail>
<bidDetail>
  <tick v="94"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
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    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="95"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
<bidDetail>
  <tick v="96"/>
    <price v="32.45" />
  <volume v="107.0" />
  <deliveryPoints>
    <EAN v='511453198597615953' />
    <EAN v='511453198597615955' />
  </deliveryPoints>
</bidDetail>
</bid>
</R3NonCipuBidDocumentResponse>
```

6.2.1. Bid Response with errors

```
<R3NonCipuBidDocumentResponse>
  <BSP>
    <Name v="Name of the BSP" />
    <EIC v="1234" />
  </BSP>
  <deliveryDay v="2016-06-13" />
  <contractReference v="R3NonCipu-XXX-2016" />
  <status v="Rejected" />
  <error>
```



```
<errorCode v="E01"/>  
<errorText v="Contract Reference is not linked to the user login"/>  
</error>  
</R3NonCipuBidDocumentResponse>
```