

KP – Interface for network users

v1.1

0 Version control

Date	Author	Version	Change
2020.12.18.	Magdus Adrienn	1.0	Created
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1 General

This document contains a collection of the methods of the public network user webservice of the RBBP or also known as KP system.

Service Name: **SoapRbbpTradingService**.

The service is available any time for partners registered in the KP system.

Services are available on the following URLs:

Environment	URL
Test	https://ipnew.test.fgsz.hu/Fgsz.Rbbp.Web.UAT/Services/SoapRbbpTradingService.svc
Live	https://ipnew.fgsz.hu/Fgsz.Rbbp.Web/Services/SoapRbbpTradingService.svc

Types of input parameters and return values are described in the XSD schemes in the WSDL.

The WSDL of the services can be retrieved by using the "?singleWsdL" parameter inserted after the URL, for example:

Environment	URL
Test	https://ipnew.test.fgsz.hu/Fgsz.Rbbp.Web.UAT/Services/SoapRbbpTradingService.svc?singleWsdL
Live	https://ipnew.fgsz.hu/Fgsz.Rbbp.Web/Services/SoapRbbpTradingService.svc?singleWsdL

2 Code Tables

2.1 Offer State

ID	Code	Name_HU	Name_EN	Description
1	Created	Rögzített	Created	
2	Fulfillable	Teljesíthető	Fulfillable	
3	Fulfilled	Teljesült	Fulfilled	
4	Revoked	Visszavont	Revoked	
5	Invalid	Törölt	Invalid	

2.2 ExchangeProduct book State

ID	Code	Name_HU	Name_EN	Description
1	Created	Rögzített	Created	
2	ActiveOffer	Aktív (beadási)	Active (offer)	
3	Inactive	Inaktív	Inactive	
4	Closed	Lezárt	Closed	
5	ActiveTrade	Aktív (ügyletkötési)	Active	

2.3 OfferType

ID	Code	Name_HU	Name_EN	Description
1	Sell	Eladás	Sell	
2	Buy	Vétel	Buy	

2.4 Exchange Order Type

ID	Code	Name_HU	Name_EN	Description
1	MVS	Mindent vagy semmit	MVS	It can be fulfilled only in whole, and it will be not deleted.
2	RTM	Részteljesítés megengedett	RTM	It can be fulfilled only in parts, and it will be not deleted.
3	TET	Teljesít és töröl	TET	It can be fulfilled in parts as well as in whole, or it will be deleted.
4	TVT	Teljesít vagy töröl	TVT	It can be fulfilled only in whole, or it will be deleted.

2.5 MeasureUnitCode

ID	Code	Name_HU	Name_EN	Description
1	MAW	mWh/nap	mWh/day	
2	MW2	mWh/óra	mWh/h	

3 System level Service - Life Signal (CheckAlive)

Special method for controlling service operation, which, if for some technical reason, there is no connection with the IP system, will not return anything. If the service can be used, it returns the following message: „The service is alive.”

3.1 Message with request

A simple soap Envelope with an empty CheckAlive element in its Body element.

3.1.1 Structure

Name	Description	XML element name	Format / type
Checking		CheckAlive	xsd:String

3.1.2 Xml Example

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:ser="http://domain.service.fgsz.hu">
  <soap:Header/>
  <soap:Body>
    <ser:CheckAlive/>
  </soap:Body>
</soap:Envelope>
```

3.2 Message with response

The success response is found in CheckAliveResult element of CheckAliveResponse. If there is no connection, nothing will be returned. If the service is not available because of a http error, then this will be returned.

3.2.1 Structure

Name	Description	XML element name	Format / type
Start access		Created	xsd:Date
End Access		Expires	xsd:Date
Checking response		CheckAliveResult	xsd:String

3.2.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://domain.service.fgsz.hu/IFGSZShipperServiceSoapWrapper/CheckAliveRe
sponse</a:Action>
    <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-
200401-wss-wssecurity-secext-1.0.xsd">
      <u:Timestamp u:Id="_0">
        <u:Created>2018-05-17T14:06:17.468Z</u:Created>
        <u:Expires>2018-05-17T14:11:17.468Z</u:Expires>
      </u:Timestamp>
    </o:Security>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <CheckAliveResponse xmlns="http://domain.service.fgsz.hu">
      <CheckAliveResult> The service is alive.
    </CheckAliveResult>
  </CheckAliveResponse>
</s:Body>
</s:Envelope>
```

3.2.3 Xml Example – In the event of error

```
!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<HTML><HEAD><TITLE>Service Unavailable</TITLE>
<META HTTP-EQUIV="Content-Type" Content="text/html; charset=us-ascii"></HEAD>
<BODY><h2>Service Unavailable</h2>
<hr><p>HTTP Error 503. The service is unavailable.</p>
</BODY></HTML>
```

4 Commercial Services

4.1 Business environment

A Regional Booking and Balancing Platform system (henceforward: RBBP or old name KP) supports the collaborating natural gas system maintaining daily balancing through anonim trades with standard short term instruments on the internet. Managing these offers is also possible with machine connection on the same terms as the manual functions operate.

4.2 REQUESTING OPEN BOOKS (GetExchangeBook)

4.2.1 Description

The RBBP system allows network users to query the books which are open for trading over web-service. This means the active instruments.

Name of proposed method: **GetExchangeBook**

4.2.2 Message with request

The request can be submitted in a GetExchangeBookRequest block.

4.2.2.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Sender ID	The EIC or RBBP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String

4.2.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetExchangeBook</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetExchangeBookRequest xmlns="http://trading.service.rbbp.hu">
      <Sender codingScheme="ZSO">SHIPPERCODE</Sender>
    </GetExchangeBookRequest>
  </s:Body>
</s:Envelope>
```

4.2.3 Message with response

The response is returned in the GetExchangeBookResponse block either success or error. One ExchangeBookRow block contains the data of an open market.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0002	The network user code is not found in the database with the given coding shema.
DT0004	The input parameter is not valid to the xml.

4.2.3.1 Structure

Name	Description	XML element name	Format / type
Error code	In the event of error Error message code.	generalErrorCode	xsd:String
Error message	In the event of error Error message.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
TSO	TSO Code	TSO	xsd:String
Instrument Code	Code of the exchange book	Code	xsd:String
Instrument Name	Name of the exchange book	Name	xsd:String
Currency	EUR	Currency	xsd:String
Opening Trade Price	1/MWh/h The value can be negative.	OpeningTradePrice	xsd:Number
Closing Trade Price	1/MWh/h The value can be negative.	ClosingTradePrice	xsd:Number
Minimum Trade Price	1/MWh/h The value can be negative.	MinTradePrice	xsd:Number
Maximum Trade Price	1/MWh/h The value can be negative.	MaxTradePrice	xsd:Number
Aggregated Trade Capacity	MWh/h	SumTradeCapacity	xsd:Number
Buy Offer Price	1/MWh/h The value can be negative.	CurrentBuyOfferPrice	xsd:Number
Sell Offer Price	1/MWh/h The value can be negative.	CurrentSellOfferPrice	xsd:Number
Closing Time	When the exchange book closes.	ClosingTime	xsd:dateTime

4.2.3.2 Xml Example – In the event of success

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetExchangeBook</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetExchangeBookResponse xmlns="http://trading.service.rbbp.hu">
      <ExchangeBookRows>
        <TSO codingScheme="_305">HULFGSZTSO</TSO>
        <Code>MGPda20210107</Code>
        <Name>MGPda / 2021-01-07</Name>
        <Currency>EUR</Currency>
        <OpeningTradePrice>0.0000</OpeningTradePrice>
        <ClosingTradePrice>0.0000</ClosingTradePrice>
        <MinTradePrice>0.0000</MinTradePrice>
        <MaxTradePrice>0.0000</MaxTradePrice>
        <SumTradeCapacity >0</SumTradeCapacity>
      </ExchangeBookRows>
    </GetExchangeBookResponse>
  </s:Body>
</s:Envelope>

```



```

    <CurrentBuyOfferPrice>1.0000</CurrentBuyOfferPrice>
    <CurrentSellOfferPrice xsi:nil="true" />
    <ClosingTime>2021-01-07T03:00:00</ClosingTime>
  </ExchangeBookRows>
  <ExchangeBookRows>
    <TSO codingScheme="_305">HULFGSZTSO</TSO>
    <Code>MGPwd20210107</Code>
    <Name>MGPwd / 2021-01-07</Name>
    <Currency>EUR</Currency>
    <OpeningTradePrice>0.0000</OpeningTradePrice>
    <ClosingTradePrice>0.0000</ClosingTradePrice>
    <MinTradePrice>0.0000</MinTradePrice>
    <MaxTradePrice>0.0000</MaxTradePrice>
    <SumTradeCapacity>0</SumTradeCapacity>
    <CurrentBuyOfferPrice xsi:nil="true" />
    <CurrentSellOfferPrice xsi:nil="true" />
    <ClosingTime>2021-01-08T04:00:00</ClosingTime>
  </ExchangeBookRows>
  <Success>true</Success>
</GetExchangeBookResponse>
</s:Body>
</s:Envelope>

```

4.2.3.3 Xml Example – In the event of error

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetExchangeBook</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetExchangeBookResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>[SS0002] A megadott kódolási shémával ZSO a xxx azonosítójú partner
nem található!</GeneralErrorText>
      <Success>false</Success>
    </GetExchangeBookResponse>
  </s:Body>
</s:Envelope>

```

4.3 SUBMITTING OFFER (SaveNewOffer)

4.3.1 Description

The RBBP system allows network users to submit an offer over a webservice in a given exchange book according to UTC time zone.

Name of the proposed method: **SaveNewOffer**

4.3.2 Message with request

The request can be sent in in a SaveNewOfferRequest block, which contains an OfferRow block.

4.3.2.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Identificaion number of the exchangebook	The code of the active instrument of which the offer belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute is always ZSO, which mean the RBBP code of the point.	NetworkPointCode	xsd:String
Offer Type	Possible values: Sell, Buy	OfferType	xsd:String

Exchangeorder Type	Possible values: RTM, MVS, TET, TVS	ExchangeOrderTypeCode	xsd:String
Expiration Period	Validity period of the offer in UTC.	ExpirationPeriod	xsd:dateTime
GasPeriod	Reference time of the offer. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime
Offer Price	Offer price of 1 MWh/h. Value of CurrencyCode attribute is always EUR. The value can be negative.	OfferPrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	OfferedCapacity	xsd:Number
Sender ID	The EIC or RBBP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String

4.3.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/SaveNewOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveNewOfferRequest xmlns="http://trading.service.rbbp.hu">
      <CreationTime>2021-01-01T00:00:00</CreationTime>
      <OfferRow>
        <InstrumentCode>MGPwd20210111</InstrumentCode>
        <NetworkPointCode codingScheme="ZSO">SINBP00000N</NetworkPointCode>
        <OfferType>Sell</OfferType>
        <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
        <ExpirationPeriod>2021-01-11T20:00:00</ExpirationPeriod>
        <GasPeriod>2021-01-11T20:00:00/2021-01-11T21:00:00</GasPeriod>
        <OfferPrice currencyCode="EUR">4</OfferPrice>
        <OfferedCapacity measureUnit="MW2">2</OfferedCapacity>
      </OfferRow>
      <Sender codingScheme="ZSO">SHIPPERCODE</Sender>
    </SaveNewOfferRequest>
  </s:Body>
</s:Envelope>
```

4.3.3 Message with response

The answer is retrieved in an SaveNewOfferResponse. It contains the submitted offer if it is created or the error .

Error codes:

Error code	Error message
SS0001	The logged in partner is not equivalent with the sender!

SS0002	The network user code is not found in the database with the given coding shema.
DT0004	The input parameter is not valid to the xml.
TP0001	Closed or inactive instrument.
TP0002	Partner is suspended!
TP0004	Network point is suspended!
TP0007	There is not enough credit limit.
TP0008	There is not enough credit limit. The needed amount.
TP0009	Invalid offer price, because it is out of the permitted range.
TP0041	Expiration date can not be in the past!
TP0055	The given instrument code does not exists
TP0058	Invalid gasperiod!
TP0059	Dateformat is invalid.
TP0060	Invalid expiration date.
TP0061	Network point with identifier with the given coding scheme does not exists!
TP0064	Gasperiod is not on the same day as the instrument!

4.3.3.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Error message	In the event of error Error message.	generalErrorCode	xsd:String
Error code	In the event of error Error message code.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
Identificaion number of the offer	Unique code.	OfferId	xsd:Number
TSO code	The retrieved coding scheme is ZSO, which means the RBBP code.	TSO	xsd:String
Identificaion number of the exchangebook	The code of the active instrument of which the offer belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute	NetworkPointCode	xsd:String

	is always ZSO, which mean the RBBP code of the point.		
Offer Type	Possible values: Sell, Buy	OfferType	xsd:String
Offer State	Possible values: Created, Fulfilled, Fulfillable, Revoked, Invalid	OfferState	xsd:String
Exchangeorder Type	Possible values: RTM, MVS, TET, TVS	ExchangeOrderTypeCode	xsd:String
Expiration Period	Validity period of the offer in UTC.	ExpirationPeriod	xsd:dateTime
Daily Quantity	Quantity of the offered capacity in Mwh/day. Value of measureUnitCode attribute is always MAW.	DailyQuantity	xsd:Number
GasPeriod	Reference time of the offer. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime
Offer Price	Offer price of 1 MWh/h. Value of CurrencyCode attribute is always EUR.	OfferPrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	OfferedCapacity	xsd:Number
Creation Time	The time when the offes was saved.	CreationTime	xsd:dateTime

4.3.3.2 Xml Example – In the event of success

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/SaveNewOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveNewOfferResponse xmlns="http://trading.service.rbbp.hu">
      <NewOfferRows>
        <NewOfferRow>
          <OfferId>21517</OfferId>
          <TSO codingScheme="ZSO" />
          <InstrumentCode>MGPwd20210118</InstrumentCode>
          <NetworkPointCode codingScheme="ZSO">SINBP000000N</NetworkPointCode>
          <OfferType>Sell</OfferType>
          <OfferState>Fulfillable</OfferState>
          <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
          <ExpirationPeriod>2021-01-18T22:00:00Z</ExpirationPeriod>
          <DailyQuantity measureUnit="MAW">4</DailyQuantity>
          <GasPeriod>2021-01-19T00:00Z/2021-01-19T01:00Z</GasPeriod>
          <OfferPrice currencyCode="EUR">3</OfferPrice>
          <OfferedCapacity measureUnit="MW2">4</OfferedCapacity>
          <CreationTime>2021-01-18T15:30:23Z</CreationTime>
        </NewOfferRow>
      </NewOfferRows>
      <Success>true</Success>
    </SaveNewOfferResponse>
  </s:Body>
</s:Envelope>

```

4.3.3.3 Xml Example – In the event of error

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/SaveNewOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveNewOfferResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>Hibás instrumentum MGPwa20210111</GeneralErrorText>
      <Success>false</Success>
    </SaveNewOfferResponse>
  </s:Body>
</s:Envelope>
```

4.4 WITHDRAWING OFFER (DeleteOffer)

4.4.1 Description

The RBBP system allows network users to withdraw active fulfillable offers of its own over webservice.

Name of the proposed method: **DeleteOffer**

4.4.2 Message with request

The request can be sent in a DeleteOfferRequest with the offer id.

4.4.2.1 Structure

Name	Description	XML element name	Format / type
Unique identifier of the offer	Identifies exactly one of the offers which is to be deleted/revoked	OfferId	xsd: Number
Sender's ID	The EIC or KP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String

4.4.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/DeleteOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <DeleteOfferRequest xmlns="http://trading.service.rbbp.hu">
      <OfferId>21402</OfferId>
      <Sender codingScheme="305">SHIPPEREICCODE</Sender>
    </DeleteOfferRequest>
  </s:Body>
</s:Envelope>
```

4.4.3 Message with response

The system returns the success or error message in a DeleteOfferResponse block.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.

SS0002	The network user code is not found in the database with the given coding schema.
DT0004	The input parameter is not valid to the xml.
TP0057	The offer cannot be deleted. Only Fulfillable offers can be deleted.
TP0056	Offer with this identifier does not exists.

4.4.3.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Error message	In the event of error Error message.	generalErrorCode	xsd:String
Error code	In the event of error Error message code.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
Identificaion number of the offer	Unique code.	OfferId	xsd:Number
TSO code	The retrieved coding scheme is ZSO, which means the RBBP code.	TSO	xsd:String
Identificaion number of the exchangebook	The code of the active instrument of which the offer belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute is always ZSO, which mean the RBBP code of the point.	NetworkPointCode	xsd:String
Offer Type	Possible values: Sell, Buy	OfferType	xsd:String
Offer State	Possible values: Created, Fulfilled, Fulfillable, Revoked, Invalid	OfferState	xsd:String
Exchangeorder Type	Possible values: RTM, MVS, TET, TVS	ExchangeOrderTypeCode	xsd:String
Expiration Period	Validity period of the offer in UTC.	ExpirationPeriod	xsd:dateTime
Daily Quantity	Quantity of the offered capacity in Mwh/day. Value of measureUnitCode attribute is always MAW.	DailyQuantity	xsd:Number
GasPeriod	Reference time of the offer. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime

Offer price	Offer price of 1 MWh/h. Value of CurrencyCode attribute is always EUR. The value can be negative.	OfferPrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	OfferedCapacity	xsd:Number
Creation Time	The time when the offer was saved.	CreationTime	xsd:dateTime
Creator Name	The user, who saved the offer.	CreatorActorFullName	xsd:String

4.4.3.2 Xml Example – In the event of success

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/DeleteOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <DeleteOfferResponse xmlns="http://trading.service.rbbp.hu">
      <DeletedOfferRow>
        <OfferId>21517</OfferId>
        <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
        <InstrumentCode>MGPwd20210118</InstrumentCode>
        <NetworkPointCode codingScheme="ZSO">SINBP00000N</NetworkPointCode>
        <OfferType>Sell</OfferType>
        <OfferState>Revoked</OfferState>
        <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
        <ExpirationPeriod>2021-01-18T22:00:00Z</ExpirationPeriod>
        <DailyQuantity measureUnit="MAW">4</DailyQuantity>
        <GasPeriod>2021-01-19T00:00Z/2021-01-19T01:00Z</GasPeriod>
        <OfferPrice currencyCode="EUR">3</OfferPrice>
        <OfferedCapacity measureUnit="MW2">4</OfferedCapacity>
        <CreationTime>2021-01-18T15:30:23Z</CreationTime>
        <CreatorName> Felhasználó neve (Partner neve)</CreatorName>
      </DeletedOfferRow>
      <Success>true</Success>
    </DeleteOfferResponse>
  </s:Body>
</s:Envelope>
```

4.4.3.3 Xml Example – In the event of error

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/DeleteOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <DeleteOfferResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>[TP0056] A 1 azonosítójú ajánlat nem található!</GeneralErrorText>
      <Success>false</Success>
    </DeleteOfferResponse>
  </s:Body>
</s:Envelope>
```

4.5 REQUESTING OWN OFFERS (GetOwnOffer)

4.5.1 Description

The RBBP system allows network users to query their own offers over webservice for a given gasday or a given exchange book.

Name of proposed method: **GetOwnOffer**

4.5.2 Message with request

The request can be submitted in a GetOwnOfferRequest block, which queries the offers created by the network user

4.5.2.1 Structure

Name	Description	XML element name	Format / type
Subject gasday	The gasday the transaction notifications for which are queried. Not mandatory element.	GasDay	xsd:date
Exchangebook code	Active instrument code. Code of the open market which is queried. Either this or gasday must be filled.	Instrument	xsd:String
Sender ID	The EIC or RBBP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String

4.5.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOwnOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOwnOfferRequest xmlns="http://trading.service.rbbp.hu">
      <GasDay>2021-01-07T00:00:00</GasDay>
      <Instrument>MGPda20210107</Instrument>
      <Sender codingScheme="305">SHIPPEREICCODE</Sender>
    </GetOwnOfferRequest>
  </s:Body>
</s:Envelope>
```

4.5.3 Message with response

The system returns with a GetOwnOfferResponse with the offers of the network user regardless of its state. An OwnOfferRow contains the data of an offer.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0002	The network user code is not found in the database.
DT0004	The input parameter is not valid to the xml.
TP0055	The given instrument code does not exist
TP0064	Gasperiod is not on the same day as the instrument!

4.5.3.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Error message	In the event of error Error message.	generalErrorCode	xsd:String
Error code	In the event of error Error message code.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
Identificaion number of the offer	Unique code.	OfferId	xsd:Number
TSO code	The retrieved coding scheme is ZSO, which means the RBBP code.	TSO	xsd:String
Identificaion number of the exchangebook	The code of the active instrument of which the offer belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute is always ZSO, which mean the RBBP code of the point.	NetworkPointCode	xsd:String
Offer Type	Possible values: Sell, Buy	OfferType	xsd:String
Offer State	Possible values: Created, Fulfilled, Fulfillable, Revoked, Invalid	OfferState	xsd:String
Exchangeorder Type	Possible values: RTM, MVS, TET, TVS	ExchangeOrderTypeCode	xsd:String
Expiration Period	Validity period of the offer in UTC.	ExpirationPeriod	xsd:dateTime
Daily Quantity	Quantity of the offered capacity in Mwh/day. Value of measureUnitCode attribute is always MAW.	DailyQuantity	xsd:Number
GasPeriod	Reference time of the offer. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime
Offer Price	Offer price of 1 MWh/h. Value of CurrencyCode attribute is always EUR. The value can be negative.	OfferPrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	OfferedCapacity	xsd:Number
Creation Time	The time when the offes was saved.	CreationTime	xsd:dateTime
Creator Name	The user, who saved the offer.	CreatorActorFullName	xsd: String

4.5.3.2 Xml Example – In the event of success

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOwnOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOwnOfferResponse xmlns="http://trading.service.rbbp.hu">
      <OwnOfferRows>
        <OwnOfferRow>
          <OfferId>21454</OfferId>
          <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
          <InstrumentCode>MGPwd20210113</InstrumentCode>
          <NetworkPointCode codingScheme="ZSO">SINBP00000N</NetworkPointCode>
          <OfferType>Sell</OfferType>
          <OfferState>Fulfillable</OfferState>
          <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
          <ExpirationPeriod>2021-01-13T22:00:00Z</ExpirationPeriod>
          <DailyQuantity measureUnit="MAW">2</DailyQuantity>
          <GasPeriod>2021-01-13T23:00Z/2021-01-14T00:00Z</GasPeriod>
          <OfferPrice currencyCode="EUR">5</OfferPrice>
          <OfferedCapacity measureUnit="MW2">2</OfferedCapacity>
          <CreationTime>2021-01-13T18:19:24Z</CreationTime>
          <CreatorName>Felhasználó neve (Partner neve)</CreatorName>
        </OwnOfferRow>
        <OwnOfferRow>
          <OfferId>21454</OfferId>
          <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
          <InstrumentCode>MGPwd20210113</InstrumentCode>
          <NetworkPointCode codingScheme="ZSO">SINBP00000N</NetworkPointCode>
          <OfferType>Sell</OfferType>
          <OfferState>Fulfilled</OfferState>
          <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
          <ExpirationPeriod>2021-01-13T22:00:00Z</ExpirationPeriod>
          <DailyQuantity measureUnit="MAW">2</DailyQuantity>
          <GasPeriod>2021-01-13T23:00Z/2021-01-14T00:00Z</GasPeriod>
          <OfferPrice currencyCode="EUR">50</OfferPrice>
          <OfferedCapacity measureUnit="MW2">20</OfferedCapacity>
          <CreationTime>2021-01-13T18:19:24Z</CreationTime>
          <CreatorName>Felhasználó neve (Partner neve)</CreatorName>
        </OwnOfferRow>
      </OwnOfferRows>
      <Success>true</Success>
    </GetOwnOfferResponse>
  </s:Body>
</s:Envelope>
```

4.5.3.3 Xml Example – In the event of error

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOwnOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOwnOfferResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>[TP0055] Az instrumentum kód nem található:
MGPwd20210113</GeneralErrorText>
      <Success>false</Success>
    </GetOwnOfferResponse>
  </s:Body>
</s:Envelope>
```

4.6 REQUESTING OWN TRADES (GetTrade)

4.6.1 Description

The RBBP system allows network users to query the trades over webservice for a given gasday or a given exchangebook.

Name of proposed method: **GetTrade**

4.6.2 Message with request

The request can be submitted in a GetTradeRequest block, which retrieves the trades of the network user.

4.6.2.1 Structure

Name	Description	XML element name	Format / type
Subject gasday	The gasday the transaction notifications for which are queried. Not mandatory element.	GasDay	xsd:date
Exchangebook code	Active instrument code. Code of the open market which is queried. Either this or gasday must be filled.	Instrument	xsd:String
Sender ID	The EIC or RBBP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String

4.6.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetTrade</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetTradeRequest xmlns="http://trading.service.rbbp.hu">
      <GasDay>2021-01-01T00:00:00</GasDay>
      <Instrument>MGPwd20210107</Instrument>
      <Sender codingScheme="ZSO">SHIPPERCODE</Sender>
    </GetTradeRequest>
  </s:Body>
</s:Envelope>
```

4.6.3 Message with response

The system returns the success and trades, if there is any, or the error in a GetTradeResponse block. An ExchangeTradeRow block contains the data of a trade.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0002	The network user code is not found in the database.
DT0004	The input parameter is not valid to the xml.
TP0055	The given instrument code does not exists.
TP0064	Gasperiod is not on the same day as the instrument!

4.6.3.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Error message	In the event of error Error message.	generalErrorCode	xsd:String
Error code	In the event of error Error message code.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
Identificaion number of the trade	Unique code.	TradeId	xsd:Number
TSO code	The retrieved coding scheme is ZSO, which means the RBBP code.	TSO	xsd:String
Identificaion number of the exchangebook	The code of the active instrument of which the trade belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute is always ZSO, which mean the RBBP code of the point.	NetworkPointCode	xsd:String
Daily Quantity	Quantity of the traded capacity in Mwh/day. Value of measureUnitCode attribute is always MAW.	DailyQuantity	xsd:Number
GasPeriod	Reference time of the trade. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime
Trade Price	The price of the trade, which was created by matching the offers. The value can be negative.	TradePrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	TradeCapacity	xsd:Number
Creation Time	The time when the offes was saved.	CreationTime	xsd:dateTime

4.6.3.2 Xml Example –In the event of success

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetTrade</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetTradeResponse xmlns="http://trading.service.rbbp.hu">
      <ExchangeTradeRows>
        <ExchangeTradeRow>
          <TradeId>199</TradeId>
          <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
        </ExchangeTradeRow>
      </ExchangeTradeRows>
    </GetTradeResponse>
  </s:Body>
</s:Envelope>
```

```

<InstrumentCode>MGPwd20210111</InstrumentCode>
<NetworkPointCode codingScheme="ZSO">SINBP000000N</NetworkPointCode>
<DailyQuantity measureUnit="MAW">2</DailyQuantity>
<GasPeriod>2021-01-11T20:00Z/2021-01-11T21:00Z</GasPeriod>
<TradePrice currencyCode="EUR">4</TradePrice>
<TradeCapacity measureUnit="MW2">2</TradeCapacity>
<CreationTime>2021-01-11T14:28:07Z</CreationTime>
</ExchangeTradeRow>
<ExchangeTradeRow>
  <TradeId>200</TradeId>
  <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
  <InstrumentCode>MGPwd20210111</InstrumentCode>
  <NetworkPointCode codingScheme="ZSO">SINBP000000N</NetworkPointCode>
  <DailyQuantity measureUnit="MAW">2</DailyQuantity>
  <GasPeriod>2021-01-11T20:00Z/2021-01-11T21:00Z</GasPeriod>
  <TradePrice currencyCode="EUR">3</TradePrice>
  <TradeCapacity measureUnit="MW2">2</TradeCapacity>
  <CreationTime>2021-01-11T14:28:07Z</CreationTime>
</ExchangeTradeRow>
</ExchangeTradeRows>
<Success>true</Success>
</GetTradeResponse>
</s:Body>
</s:Envelope>

```

4.6.3.3 Xml Example – In the event of error

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetTrade</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetTradeResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>[TP0055] Az instrumentum kód nem található: vv</GeneralErrorText>
      <Success>false</Success>
    </GetTradeResponse>
  </s:Body>
</s:Envelope>

```

4.7 REQUESTING PUBLIC OFFERS (GetOpenOffer)

4.7.1 Description

The RBBP system allows network users to **query open, active and not their own offers** over webservice for a given gasday, exchange book or offer type.

Name of proposed method: **GetOpenOffer**

4.7.2 Message with request

The request can be submitted in a GetOpenOfferRequest block, which queries the offers of which the network user can submit offers.

4.7.2.1 Structure

Name	Description	XML element name	Format / type
Subject gasday	The gasday the transaction notifications for which are queried. Not mandatory element.	GasDay	xsd:date
Exchangebook code	Active instrument code. Code of the open market which is queried. Either this or gasday must be filled.	Instrument	xsd:String
Offer type	Values can be: Sell, Buy. Not mandatory element.	OfferType	xsd:String

Sender ID	The EIC or RBBP code of the sender. The accepted coding schemes are ZSO, which means the RBBP code, or 305, which means EIC code	sender	xsd:String
-----------	--	--------	------------

4.7.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOpenOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOpenOfferRequest xmlns="http://trading.service.rbbp.hu">
      <Instrument>MGPwd20210111</Instrument>
      <Sender codingScheme="305">SHIPPEREICCODE</Sender>
    </GetOpenOfferRequest>
  </s:Body>
</s:Envelope>
```

4.7.3 Message with response

The system returns in a GetOpenOfferResponse block the success and the open offers, if they exists, or the errors.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0002	The network user code is not found in the database.
DT0004	The input parameter is not valid to the xml.
TP0055	The given instrument code does not exists.
TP0064	Gasperiod is not on the same day as the instrument!

4.7.3.1 Structure

Megnevezés	Leírás	XML elemnév	Formátum / típus
Error message	In the event of error Error message.	generalErrorCode	xsd:String
Error code	In the event of error Error message code.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	succes	xsd:String
TSO Code	The retrieved coding scheme is ZSO, which means the RBBP code.	TSO	xsd:String
Identificaion number of the exchangebook	The code of the active instrument of which the offer belongs to.	InstrumentCode	xsd:String
Networkpoint Code	The code for the network point regarding the offer. Value of CodingScheme attribute	NetworkPointCode	xsd:String

	is always ZSO, which mean the RBBP code of the point.		
Offer Type	Possible values: Sell, Buy	OfferType	xsd:String
Daily Quantity	Quantity of the offered capacity in Mwh/day. Value of measureUnitCode attribute is always MAW.	DailyQuantity	xsd:Number
GasPeriod	Reference time of the offer. Gasperiods must be specified in UTC with a slash symbol. For example a gashour period is given by: 2021-01-18T23:00Z/2021-01-19T00:00Z	GasPeriod	xsd:dateTime
Offer Price	Offer price of 1 MWh/h. Value of CurrencyCode attribute is always EUR. The value can be negative.	OfferPrice	xsd:Number
Offered Capacity	Quantity of the offered capacity in Mwh/h. Value of measureUnitCode attribute is always MW2.	OfferedCapacity	xsd:Number

4.7.3.2 Xml Example –In the event of success

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOpenOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOpenOfferResponse xmlns="http://trading.service.rbbp.hu">
      <OpenOfferRows>
        <OpenOfferRow>
          <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
          <InstrumentCode>MGPwd20210111</InstrumentCode>
          <NetworkPointCode codingScheme="ZSO">SINBP000000N</NetworkPointCode>
          <OfferType>Buy</OfferType>
          <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
          <ExpirationPeriodDate>2021-01-12T05:00:00Z</ExpirationPeriodDate>
          <DailyQuantity measureUnit="MAW">2</DailyQuantity>
          <GasPeriod>2021-01-12T04:00Z/2021-01-12T05:00Z</GasPeriod>
          <OfferPrice currencyCode="EUR">5</OfferPrice>
          <OfferedCapacity measureUnit="MW2">2</OfferedCapacity>
        </OpenOfferRow>
        <OpenOfferRow>
          <TSO codingScheme="ZSO">HULFGSZTSO</TSO>
          <InstrumentCode>MGPwd20210111</InstrumentCode>
          <NetworkPointCode codingScheme="ZSO">SINBP000000N</NetworkPointCode>
          <OfferType>Buy</OfferType>
          <ExchangeOrderTypeCode>RTM</ExchangeOrderTypeCode>
          <ExpirationPeriodDate>2021-01-12T05:00:00Z</ExpirationPeriodDate>
          <DailyQuantity measureUnit="MAW">2</DailyQuantity>
          <GasPeriod>2021-01-12T02:00Z/2021-01-12T03:00Z</GasPeriod>
          <OfferPrice currencyCode="EUR">5</OfferPrice>
          <OfferedCapacity measureUnit="MW2">2</OfferedCapacity>
        </OpenOfferRow>
      </OpenOfferRows>
      <Success>true</Success>
    </GetOpenOfferResponse>
  </s:Body>
</s:Envelope>

```

4.7.3.3 Xml Example – In the event of error

```

<?xml version="1.0" encoding="utf-8"?>

```

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://tempuri.org/GetOwnOffer</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetOwnOfferResponse xmlns="http://trading.service.rbbp.hu">
      <GeneralErrorCode>0001</GeneralErrorCode>
      <GeneralErrorText>[TP0055] Az instrumentum kód nem található:
MGPwd20210113</GeneralErrorText>
      <Success>false</Success>
    </GetOwnOfferResponse>
  </s:Body>
</s:Envelope>
```


