

RBP – Portal interface

v1.1

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1 Introduction

The purpose of this document is to specify the basic principles of server-server communication that can be used in the operational business among the RBP portal and its co-operating partners, ie.

- RBP TSO Members (TSOService)

and to define its message formats:

The services are available at the following URLs:

Environments	URL
Test	https://ipnew.test.rbp.eu/Rbp.eu.UAT/Services/SoapRBPPortalService.svc
Production	https://ipnew.rbp.eu/Rbp.eu/Services/SoapRBPPortalService.svc

The services' WSDL can be called using the „?singleWsdI” parameter inserted after the URL, for examples:

<https://ipnew.test.rbp.eu/Rbp.eu.UAT/Services/SoapRBPPortalService.svc?singleWsdI>

<https://ipnew.rbp.eu/Rbp.eu/Services/SoapRBPPortalService.svc?singleWsdI>

2 Services

2.1 CheckAlive

2.1.1 Description

Special method for controlling service operation, which, if for some technical reason, there is no connection with the RBP Portal system, will not return anything. If the service can be used, it returns the following message: “[OK]”

2.1.2 Request message

2.1.2.1 Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:CheckAlive/>
  </soapenv:Body>
</soapenv:Envelope>
```

2.1.3 Response message

2.1.3.1 Example

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CheckAliveResponse xmlns="http://tempuri.org/">
    <CheckAliveResult> [OK] </CheckAliveResult>
  </CheckAliveResponse>
</s:Body>
```

2.2 Get Capacity Auctions (GetCapacityAuctionList)

Service provided for TSOs.

2.2.1 Description

TSOs can receive information about the auctions in RBP system.

2.2.2 Request message

The request message must contain the EIC code of the submitting TSO and lists of the statuses or type of the products or opening time of the auction (from, to).

2.2.2.1 Structure

XML Tag	Type	Description
offeringTSOEICCode	String(33)	EIC code of the submitting TSO
openingTimeFrom	DateTime	Beginning of the auction in RBP system
openingTimeTo	DateTime	Ending time of the auction in RBP system
status	String(100)	Status of the action in RBP system
productType	String(100)	Product type of the auction in RBP system

2.2.2.2 Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:rbp="http://rbp.eu.service">
  <soapenv:Header/>
  <soapenv:Body>
    <rbp:GetCapacityAuctionsRequest>
      <offeringTSOEICCode>21X-HU-A-A0A0A-8</offeringTSOEICCode>
      <openingTimeFrom>2018-10-02T00:00:00</openingTimeFrom>
      <openingTimeTo>2018-10-03T00:00:00</openingTimeTo>
      <rbp:statusArray>
        <rbp:status>Closed</rbp:status>
        <rbp:status>Pitstop</rbp:status>
      </rbp:statusArray>
      <rbp:productTypeArray>
        <rbp:productType>Yearly</rbp:productType>
        <rbp:productType>Within Day</rbp:productType>
        <rbp:productType>Day Ahead</rbp:productType>
      </rbp:productTypeArray>
    </rbp:GetCapacityAuctionsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.3 Response message

2.2.3.1 Structure

XML Tag	Type	Description
id	Int64	Id of the capacity auction in RBP portal system
auctionCode	String(200)	Code of the auction
openingTimeUTC	DateTime	Opening time of the auction in UTC format
closedTimeUTC	DateTime	Closing time of the auction in UTC format
offeringExitTSOName	String(200)	Offering Exit TSO's name
offeringExitTSOEICCode	String(33)	Offering Exit TSO's EIC
offeringEntryTSOName	String(200)	Offering Entry TSO's name
offeringEntryTSOEICCode	String(33)	Offering Entry TSO's EIC
networkPointEICCode	String(33)	EIC code of the network point
networkPointName	String(50)	Name of the network point
exitTSOEICCode	String(33)	EIC code of Exit TSO from view of flow direction of capacity involved in the capacity offering
exitTSOName	String(200)	Name of the exit TSO
entryTSOEICCode	String(33)	EIC code of Entry TSO from view of flow direction of capacity involved in the capacity offering
entryTSOName	String(200)	Name of the entry TSO
productType	String(100)	Value set according to the Product type code library of RBP automated interface documentation
instrument	String(400)	The instrument of the capacity involved in the auction
capacityValidFromUTC	DateTime	Start of the capacity period in UTC format
capacityValidToUTC	DateTime	End of the capacity period in UTC format
capacityType	String(100)	Value set according to the Capacity type code library of RBP automated interface documentation.
qualityExitTSO	String(100)	Value set according to the Capacity quality code library of RBP automated interface documentation in case of exit TSO
qualityEntryTSO	String(100)	Value set according to the Capacity quality code library of RBP

		automated interface documentation in case of exit TSO
offeredCapacity	Int32	Quantity of offered capacity in the auction. In case of bundled auction, the result of the bundling process.
offerLevelId	Int32	Offer level id for incremental auctions
unitsAllocated	Int32	Total allocated capacity
reservePriceExitTSO	Decimal(28,12)	Reserve price of exit TSO
reservePriceUnitExitTSO	String(30)	Unit of reserve price of exit TSO
currencyExitTSO	String(3)	Currency used in case of exit TSO
currencyAndReservePriceUnitExitTSO	String(200)	Unit of the reserve price in case of exit TSO
reservePriceEntryTSO	Decimal(28,12)	Reserve price of entry TSO
reservePriceUnitEntryTSO	String(30)	Unit of the reserve price of entry TSO
currencyEntryTSO	String(3)	Currency used in case of entry TSO
currencyAndReservePriceUnitEntryTSO	String(200)	Unit of the reserve price in case of entry TSO
relativeLargePriceStep	Decimal(28,12)	Large price step in percentage value.
relativeSmallPriceStep	Decimal(28,12)	Small price step in percentage value.
absoluteLargePriceStep	Decimal(28,12)	Large price step (in case of an absolute value type ACTA auction).
absoluteSmallPriceStep	Decimal(28,12)	Small price step (in case of an absolute value type ACTA auction).
allocatedClearingUnitPriceExitTso	Decimal(28,12)	Allocated clearing unit price in case of exit TSO
allocatedClearingUnitPriceEntryTso	Decimal(28,12)	Allocated clearing unit price in case of entry TSO
auctionCharacteristics	String(200)	Value set according to the Auction characteristics code library of RBP automated interface documentation.
lastUpdateUTC	DateTime	The last update time of the Capacity auction in UTC format
postDateUTC	DateTime	The publication time of the auction from RBP system to RBP portal in UTC format
additionalTexts	String(4000)	Comment
Status	String(100)	Status of Capacity. i.e: Active, Cancelled, Closed, Set, Setting

2.2.3.2 Example

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetCapacityAuctionsResponse xmlns="http://rbp.eu.service">
      <CapacityAuction>
        <id xmlns="">118130</id>
        <auctionCode xmlns="">20000001-RBP</auctionCode>
        <openingTimeUTC xmlns="">2018-10-02T14:30:00</openingTimeUTC>
        <closedTimeUTC xmlns="">2018-10-02T15:00:00</closedTimeUTC>
        <offeringExitTSOName xmlns="">FGSZ</offeringExitTSOName>
        <offeringExitTSOEICCode xmlns="">21X-HU-A-A0A0A-8</offeringExitTSOEICCode>
        <offeringEntryTSOName xmlns="">SNTGN Transgaz SA</offeringEntryTSOName>
        <offeringEntryTSOEICCode xmlns="">21X-HU-A-A0A0A-S</offeringEntryTSOEICCode>
        <networkPointEICCode xmlns="">21Z000000000236Q</networkPointEICCode>
        <networkPointName xmlns="">Csanádpalota</networkPointName>
        <exitTSOEICCode xmlns="">21X-HU-A-A0A0A-8</exitTSOEICCode>
        <exitTSOName xmlns="">FGSZ Zrt.</exitTSOName>
        <entryTSOEICCode xmlns="">21X-RO-A-A0A0A-S</entryTSOEICCode>
        <entryTSOName xmlns="">SNTGN Transgaz SA</entryTSOName>
        <productType xmlns="">Day ahead</productType>
        <instrument xmlns="">2018.06.24.</instrument>
        <capacityValidFromUTC xmlns="">2018-06-24T04:00:00</capacityValidFromUTC>
        <capacityValidToUTC xmlns="">2018-06-25T04:00:00</capacityValidToUTC>
        <capacityType xmlns="">Bundled</capacityType>
        <qualityExitTSO xmlns="">FIRM</qualityExitTSO>
        <qualityEntryTSO xmlns="">FIRM</qualityEntryTSO>
        <offeredCapacity xmlns="">5290208</offeredCapacity>
        <offerLevelId xsi:nil="true" xmlns=""/>
        <unitsAllocated xsi:nil="true" xmlns=""/>
        <reservePriceExitTSO xmlns="">0.036630000000</reservePriceExitTSO>
        <reservePriceUnitExitTSO xmlns="">kWh/h/day</reservePriceUnitExitTSO>
        <currencyExitTSO xmlns="">HUF</currencyExitTSO>
        <currencyAndReservePriceUnitExitTSO
  xmlns="">HUF/kWh/h/day</currencyAndReservePriceUnitExitTSO>
        <reservePriceEntryTSO xmlns="">5.186304000000</reservePriceEntryTSO>
        <reservePriceUnitEntryTSO xmlns="">kWh/h/day</reservePriceUnitEntryTSO>
        <currencyEntryTSO xmlns="">RON</currencyEntryTSO>
        <currencyAndReservePriceUnitEntryTSO
  xmlns="">RON/kWh/h/day</currencyAndReservePriceUnitEntryTSO>
        <relativeLargePriceStep xsi:nil="true" xmlns=""/>
        <relativeSmallPriceStep xsi:nil="true" xmlns=""/>
        <absoluteLargePriceStep xsi:nil="true" xmlns=""/>
        <absoluteSmallPriceStep xsi:nil="true" xmlns=""/>
        <allocatedClearingUnitPriceExitTso xsi:nil="true" xmlns=""/>
        <allocatedClearingUnitPriceEntryTso xsi:nil="true" xmlns=""/>
        <auctionCharacteristics xmlns="">Normal</auctionCharacteristics>
        <lastUpdateUTC xmlns="">2019-07-03T02:16:30.363</lastUpdateUTC>
        <postDateUTC xmlns="">2019-07-03T02:16:30.363</postDateUTC>
        <additionalTexts xmlns="">AdditionalText</additionalTexts>
        <status xmlns="">Closed</status>
      </CapacityAuction>
    </GetCapacityAuctionsResponse>
  </s:Body>
</s:Envelope>
```