

IP New –Interface for network users

v1.11

0 Version control

Date	Author	Version	Change
2020.02.18.	Lajtos András	0.94	Master copy created
2020.05.15.	Lajtos András	1.1	Version number upgrade
2020.05.19.	Magdus Adrienn	1.2	HLD shipment 1 modify EIC code handling
2020.08.27.	Magdus Adrienn	1.3	HLD shipment 1 modify EIC code handling modification
2020.09.07.	Magdus Adrienn	1.4	Coding scheme exception in the response of the getTradeNomination and the GetNomination methods
2020.12.02.	Magdus Adrienn	1.5	Adding the SaveTradeNominationInEdigasV6 methode
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2021.05.18.	Magdus Adrienn	1.7	GetMeasurementDaily modification, SaveTradeNominationInEdigasV6 new error code
2021.08.13.	Tokai Alexandra Magdus Adrienn	1.8	Adding the GetOvernominatedTradesV3 methode SaveTradeNominationInEdigasv6 modification
2021.11.11.	Magdus Adrienn Tokai Alexandra	1.9	Completion of the trading process: saving the trade with zero deletes or cancels the original trade as if the operation works manually GetOvernominatedTradesV3: table header modification
2022.03.03.	Buriusz Beáta, Szernai Judit	1.10	Fixing XML examples in nomination services
2022.10.07.	Buriusz Beáta	1.11	Introducing Hydrogen field into the system (Measurement module)

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1 General

This document contains a collection of the methods of the public network user webservice of the IP New system. The service implements both individual messaging methods and also such that are conform with the official European Standard Recommendation. Pre-studying/Knowing the standard may make the use of the service more effective. The official version of this is 5.1, for which all documentation is available at: <https://www.edigas.org/version-5/>

You can read in detail about the 6th version of the Edigas standard at: <https://www.edigas.org/version-6/>

Service Name: **SoapFGSZShipperService.**

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

Services are available on the following URLs:

<https://<servername>/Fgsz.Ip.Web/Services/SoapFGSZShipperService.svc>

Environment	Servername
Test	ipnew.test.fgsz.hu
Live	ipnew.fgsz.hu

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 "?singleWsd" parameter inserted after the URL, for example:

<https://<servername>/Fgsz.Ip.Web/Services/SoapFGSZShipperService.svc?singleWsd>

2 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.”

2.1 Message with request

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

2.1.1 Structure

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

2.1.2 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>

```

2.2 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.

2.2.1 Structure

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

2.2.2 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>

```

2.2.3 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>
```

3 Nomination Services

3.1 Business environment

The purpose of nominating for the gas transmission system is to report the gas traffic requested by the network user. During the nomination, for a shipper-type network user partner, the demand for gas quantities to be delivered per hour shall be reported for a given gasday, per network point, giving/marking the shipper pair. A nomination line specifies what amount/quantity of traffic that particular shipping party requires at the given network point on the given gasday, with indication of the given shipper pair.

Trade deals/Transactions outside the IP system that affect the total balance of the balancing portfolios must also be registered in the IP system. Handling such transaction notifications deviates from the nomination lines by entering daily quantities and by the trading partner also having to perform the task in the IP system, while in the case of a nomination, the network user shipping pair/counterpart/ has no such obligation. Transaction notifications are coordinated at the time when submitted/entered in the IP system.

3.2 SENDING IN/SUBMITTING NOMINATION DATA (SaveNominationInEdigas)

3.2.1 Description

The IP system allows network users to **submit** one-sided and two-sided **nominations for a given gasday** according to the UTC timezone over web-service.

Name of proposed method: **SaveNominationInEdigas**

3.2.2 Message with request

The request can be sent in/submitted in a saveNominationInEdigasRequest block containing a standard Edig@s Nomination_Document block of version 5.1.

A nomination line can be specified with multiple network user pairs (Accounts) for a Network Point (Connection Point) where the nominated values are provided in gashour breakdown (Period).

The basic structure of Nomination_Document is setup as follows:

- ConnectionPoint (repetitive block)
 - NominationType
 - Account (repetitive block)
 - Period (repetitive block)
 - timeIntervall
 - direction.code
 - total_Quantity.amount

At least one of the repetitive blocks must be included. The number of the Period blocks must be as high as many gazhours the day contains for which the nomination is submitted. If the nomination is the same in every hour, there is no need for distinct period blocks for every hour, but the timeIntervall has to cover the whole gasday.

In case of submitting different direction in the same Account, the timeIntervalls of the Periods of the same direction must cover the whole gasday.

For a 24-hour day, enter the timeInterval element within the Period for winter time, for the individual hours as follows:

1. hour 2018-11-01T05:00Z/2018-11-01T06:00Z
2. hour 2018-11-01T06:00Z/2018-11-01T07:00Z
-
20. hour 2018-11-02T00:00Z/2018-11-02T01:00Z
21. hour 2018-11-02T01:00Z/2018-11-02T02:00Z
22. hour 2018-11-02T02:00Z/2018-11-02T03:00Z
23. hour 2018-11-02T03:00Z/2018-11-02T04:00Z
24. hour 2018-11-02T04:00Z/2018-11-02T05:00Z

For a 24-hour day, enter the timeInterval element for summer time:

1. hour 2018-04-01T04:00Z/2018-04-01T05:00Z
2. hour 2018-04-01T05:00Z/2018-04-01T06:00Z
-
20. hour 2018-04-01T23:00Z/2018-04-02T00:00Z
21. hour 2018-04-02T00:00Z/2018-04-02T01:00Z
22. hour 2018-04-02T01:00Z/2018-04-02T02:00Z
23. hour 2018-04-02T02:00Z/2018-04-02T03:00Z
24. hour 2018-04-02T03:00Z/2018-04-02T04:00Z

For a 25-hour day, entering the timeInterval element:

1. hour 2018-10-27T04:00Z/2018-10-27T05:00Z
2. hour 2018-10-27T05:00Z/2018-10-27T06:00Z
-
20. hour 2018-10-27T23:00Z/2018-10-28T00:00Z
21. hour 2018-10-28T00:00Z/2018-10-28T01:00Z
22. hour 2018-10-28T01:00Z/2018-10-28T02:00Z
23. hour 2018-10-28T02:00Z/2018-10-28T03:00Z
24. hour 2018-10-28T03:00Z/2018-10-28T04:00Z
25. hour 2018-10-28T04:00Z/2018-10-28T05:00Z

For a 23-hour day, entering the timeInterval element:

1. hour 2018-03-24T05:00Z/2018-03-24T06:00Z
2. hour 2018-03-24T06:00Z/2018-03-24T07:00Z
-
20. hour 2018-03-25T00:00Z/2018-03-25T01:00Z
21. hour 2018-03-25T01:00Z/2018-03-25T02:00Z
22. hour 2018-03-25T02:00Z/2018-03-25T03:00Z
23. hour 2018-03-25T03:00Z/2018-03-25T04:00Z

Policies, specialties, restrictions/constrains:

- Version: specifies the version number of the document. Only the re-submissions of the same content must be versioned and the version number always starts from 1.
- Type: always 01G
- IssuerMarketParticipantMarketRoleCode: always „ZSH”.
- RecipientMarketParticipantMarketRoleCode: always „ZSO”.
- codingScheme= for "305" filling must take place with EIC code
- codingScheme= for "ZSO" filling must take place with internal IPNew code
- NominationType: A02 –two-sided, A01-one-sided
- Direction: Z03-out, Z02- in
- measureUnit.code: always KW1
- entering validityperiod: the gasday must be specified in UTC to be filled with edigas period marker: two strings separated by slash symbol

3.2.2.1 Structure

Name	Description	XML element name	Format / type
Nomination document	Edig@s specification: https://www.edigas.org/wp-content/Downloads/nominationAndMatchingv51r3.pdf (3.4 Contextual model for the Nomination Document (NOMINT))	Nomination_Document	

3.2.2.2 Xml Example

Example 1

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"
xmlns:dom="http://domain.service.fgsz.hu"
xmlns:urn="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:saveNominationInEdigasRequest>
      <dom:Request>
        <urn:Nomination_Document release="1">
          <urn:identification>1234ABCD</urn:identification>
          <urn:version>13</urn:version>
          <urn:type>01G</urn:type>
          <urn:creationDateTime>2022-02-23T22:30:47Z</urn:creationDateTime>
          <urn:validityPeriod>2022-02-24T05:00Z/2022-02-25T05:00Z</urn:validityPeriod>
          <urn:contractReference>1</urn:contractReference>
          <urn:contractType>CT</urn:contractType>
          <urn:issuer_MarketParticipant.identification
codingScheme="305">SHIPPEREICCODE</urn:issuer_MarketParticipant.identification>
          <urn:issuer_MarketParticipant.marketRole.code>ZSH</urn:issuer_MarketParticipant.marketRole.code>
          <urn:recipient_MarketParticipant.identification
codingScheme="305">FGSZEICCODE</urn:recipient_MarketParticipant.identification>
          <urn:recipient_MarketParticipant.marketRole.code>ZSO</urn:recipient_MarketParticipant.marketRole.code>
          <urn:ConnectionPoint>
            <urn:identification codingScheme="305">POINTEICCODE</urn:identification>
            <urn:measureUnit.code>KW1</urn:measureUnit.code>
            <urn:NominationType>
              <urn:type>A02</urn:type>
            <urn:Account>
              <urn:internalAccount codingScheme="305">25X-EONFLDGZTRA9</urn:internalAccount>
              <urn:externalAccount codingScheme="305">25X-EONFLDGZTRA9</urn:externalAccount>
            <urn:Period>
              <urn:timeInterval>2022-02-24T05:00Z/2022-02-24T06:00Z</urn:timeInterval>
              <urn:direction.code>Z03</urn:direction.code>
              <urn:quantity.amount>60</urn:quantity.amount>
            </urn:Period>
          </urn:Period>
        </dom:Request>
      </dom:saveNominationInEdigasRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```



```

    <urn:Period>
      <urn:timeInterval>2022-02-24T22:00Z/2022-02-24T23:00Z</urn:timeInterval>
      <urn:direction.code>Z03</urn:direction.code>
      <urn:quantity.amount>60</urn:quantity.amount>
    </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-24T23:00Z/2022-02-25T00:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-25T00:00Z/2022-02-25T01:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-25T01:00Z/2022-02-25T02:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-25T02:00Z/2022-02-25T03:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-25T03:00Z/2022-02-25T04:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
  <urn:Period>
    <urn:timeInterval>2022-02-25T04:00Z/2022-02-25T05:00Z</urn:timeInterval>
    <urn:direction.code>Z03</urn:direction.code>
    <urn:quantity.amount>60</urn:quantity.amount>
  </urn:Period>
</urn:Account>
</urn:NominationType>
</urn:ConnectionPoint>
</urn:Nomination_Document>
</dom:Request>
</dom:saveNominationInEdigasRequest>
</soapenv:Body>
</soapenv:Envelope>

```

Example 2

```

<?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://domain.service.fgsz.hu/SaveNominationInEdigas</a:Action>
    </s:Header>
    <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <saveNominationInEdigasRequest xmlns="http://domain.service.fgsz.hu">
        <Request>
          <q1:Nomination_Document release="xxx"
            xmlns:q1="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1">
            <q1:identification> saving different directions</q1:identification>
            <q1:version>2</q1:version>
            <q1:type>01G</q1:type>
            <q1:creationDateTime>2021-01-18T00:00:00</q1:creationDateTime>
            <q1:validityPeriod>2021-01-18T05:00Z/2021-01-19T05:00Z</q1:validityPeriod>
            <q1:contractReference>xxx</q1:contractReference>
            <q1:contractType>CT</q1:contractType>
            <q1:issuer_MarketParticipant.identification
              codingScheme="ZSO">SHIPPERCODE</q1:issuer_MarketParticipant.identification>
            <q1:issuer_MarketParticipant.marketRole.code>ZSH</q1:issuer_MarketParticipant.marketRole.code>
            <q1:recipient_MarketParticipant.identification
              codingScheme="305">TSOETICCODE</q1:recipient_MarketParticipant.identification>
            <q1:recipient_MarketParticipant.marketRole.code>ZSO</q1:recipient_MarketParticipant.marketRole
              .code>
            <q1:applicationContext codingScheme="305">xxx</q1:applicationContext>
            <q1:ConnectionPoint>

```

```

<ql:identification codingScheme="305">NETWORKPOINTEICCODE</ql:identification>
<ql:measureUnit.code>KW1</ql:measureUnit.code>
<ql:NominationType>
  <ql:type>A02</ql:type>
  <ql:Account>
    <ql:internalAccount codingScheme="ZSO">SHIPPERCODE</ql:internalAccount>
    <ql:internalAccountTso codingScheme="ZSO">TSOCODE</ql:internalAccountTso>
    <ql:externalAccount codingScheme="ZSO">HUFWISHIPPERCODEEEE</ql:externalAccount>
    <ql:externalAccountTso codingScheme="ZSO">TSOCODE</ql:externalAccountTso>
    <ql:Period>
      <ql:timeInterval>2021-01-18T05:00Z/2021-01-19T05:00Z</ql:timeInterval>
      <ql:direction.code>Z02</ql:direction.code>
      <ql:quantity.amount>0</ql:quantity.amount>
    </ql:Period>
    <ql:Period>
      <ql:timeInterval>2021-01-18T05:00Z/2021-01-18T22:00Z</ql:timeInterval>
      <ql:direction.code>Z03</ql:direction.code>
      <ql:quantity.amount>0</ql:quantity.amount>
    </ql:Period>
    <ql:Period>
      <ql:timeInterval>2021-01-18T22:00Z/2021-01-19T05:00Z</ql:timeInterval>
      <ql:direction.code>Z03</ql:direction.code>
      <ql:quantity.amount>100</ql:quantity.amount>
    </ql:Period>
  </ql:Account>
</ql:NominationType>
</ql:ConnectionPoint>
</ql:Nomination_Document>
</Request>
</saveNominationInEdigasRequest>
</s:Body>
</s:Envelope>

```

3.2.3 Message with response

The response is returned in the saveNominationInEdigasResponse block.

Error codes:

The networkpoint connected errors are listed in a connectionPointError block.

Error code	Error message
IN0001	If a shipper nominates for a given network point on a given gasday, then he must have a capacity contract valid for that gasday and that network point.
IN0002	Only nominations for the given gasday and for any of the subsequent 60 days may be submitted.
IN0003	At the network point, regarding the particularly given gashour and given shipper, the value of the shipment task must not exceed the available contracted hourly capacity.
IN0005	Only one type of nomination line can be specified per network point, direction, and per RH partner.
IN0007	It is mandatory to nominate for all network points with capacity in accordance with the reserved/tied/contracted capacity directions.
IN0008	The number of nomination quantities may only be positive!
IN0012	The shipper is in an inactive status and thus can not edit the portfolio.
IN0013	There is no single sided authorization.
IN0016	The network point was not found.

IN0017	The RH partner's EIC code is not found in the database.
IN0019	The number of gashours differs on the gasday.
IN0022	The nomination closing has been started for {0}, {1}. You can not nominate this gashour. Nomination can be submitted 2 hours prior to leadtime.
IN0029	Minimum limit has been set because of FDAUIOLI process. hour nomination, must be minimum:
IN0049	There is no data for GasHour.
IN0058	The networkuser must be the same as the sender.
IN0059	The xml in the request is empty or in wrong namespace.
IN0060	The nomination row is missing.
IN0064	Because of the nomination closing, pls try to save again in a few minutes.
IN0065	The nomination portfolio has been modified through multiple functions at the same time. Please try again.
IN0069	Nomination at the given hour is not available!
IN0081	Timeinterval is duplicated or overlapping with other periods.
IN0082	Timeinterval is not correct or not on same gasday as the portfolio.
IN0085	The partner is not CEREMP valid. At this networkpoint the given shipper pair must be CEREMP valid.
IN0100	The Network User of this EIC {0} has alias NU counterparties with this TSO, therefore the NU counterparty can not be identified. The nomination can not be accepted
IN0102	At this networkpoint this alias can not be used.
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.
E0048	Scheme validation warning! Wrong namespace.
E0035	Scheme validation warning!

3.2.3.1 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

3.2.3.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <saveNominationInEdigasResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <success>true</success>
    </saveNominationInEdigasResponse>
  </s:Body>
</s:Envelope>
```

3.2.3.3 Xml Example – In the event of error

```
<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/saveNominationInEdigasResponse</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>2018-05-17T14:21:00.963Z</u:Created>
        <u:Expires>2018-05-17T14:26:00.963Z</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">
    <saveNominationInEdigasResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </saveNominationInEdigasResponse >
  </s:Body>
</s:Envelope>
```

or

```
<?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://domain.service.fgsz.hu/SaveNominationInEdigas</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <saveNominationInEdigasResponse xmlns="http://domain.service.fgsz.hu">
      <connectionPointError xmlns="">
        <connectionPoint codingScheme="305">39ZKADUNAUJ11GNA - Z03</connectionPoint>
      </connectionPointError>
      <error>
        <code>IN0003</code>
        <text>Dunaújváros 1 (39ZKADUNAUJ11GNA - Z03), Budapesti Erőmű Zrt. (HUFBERT) - 23GH (9 990 kWh/h).
A hálózati ponton adott gázórára a szállítási feladat értékének bele kell férnie a rendelkezésre álló
nominálható órai kapacitásba.</text>
      </error>
      <error>
        <code>IN0003</code>
        <text>Dunaújváros 1 (39ZKADUNAUJ11GNA - Z03), Budapesti Erőmű Zrt. (HUFBERT) - 24GH (9 990 kWh/h).
A hálózati ponton adott gázórára a szállítási feladat értékének bele kell férnie a rendelkezésre álló
nominálható órai kapacitásba.</text>
      </error>
    </saveNominationInEdigasResponse>
  </s:Body>
</s:Envelope>
```

3.3 QUERY/REQUEST FOR NOMINATION DATA READING (GetNomination)

3.3.1 Description

The IP system allows network users to **query nomination data** over a webservice for a given gasday.

Name of the proposed method: **GetNomination**

The data service retrieves the nomination lines in the queried version of the shipping portfolio. If no version number is specified, then the nomination lines for the latest version are shown. The capacity of the network user the he may nominate can be queried in the version zero.

3.3.2 Message with request

In a `getNominationRequest` block, you can query/retrieve the nominations of the network user for a given gasday.

3.3.2.1 Structure

Name	Description	XML element name	Format / type
Date of creation	Date/time of creation of message. The new IP does not use the field.	creationDate	xsd:dateTime
Unique identifier of the message	An identifier generated by the sender that identifies exactly one of the messages he has ever sent. The new IP does not use the field.	messageID	xsd:Number
Sender ID	The EIC or IP code of the sender or the partner who assigned the actual sender with sending the message. The accepted coding schemes are ZZZ, which means the IP code, or 305, which means EIC code	sender	xsd:String
Subject Gas Day	The gasday whose nomination lines are queried.	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)
Portfolio Version	The version of the balancing portfolio whose nomination lines are queried.	version	xsd:Number

3.3.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"
xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:getNominationRequest>
      <dom:messageHeader>
        <dom:creationDate>2022-02-23T22:30:47Z</dom:creationDate>
        <dom:messageId>1</dom:messageId>
        <dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2022-02-24</dom:subjectGasDay>
      <dom:version>1</dom:version>
    </dom:getNominationRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

3.3.3 Message with response

The IP system's `GetNominationResponse` block will return the total of nomination lines regarding the network user to the requested gasday. The data of any nomination line is contained in the `nominationLine` repeating block, in which the nomination data are listed by hourly breakdown in `hourlyQuantity` repeating blocks.

Policies, specialties, restrictions/constrains:

- At present, in the response message structures, the attribute value for encoding scheme is "ZZZ" or "305" depending on the partner's communicating code type. EXCEPTION: due to specific partner requirements, the coding scheme of the GetTradeAgreementsResponse and the GetNominationResponse is always „ZZZ" filled with internal code
- codingScheme= for "305" it must be filled with an EIC code
- codingScheme= for "ZZZ" it must be filled with an internal code
- measureUnit.code: always KW1, because it is about hourly data

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.
IN0041	Not specified or incorrectly specified gasday!
IN0099	Nomination Portfolio Not Found or you have No Eligibility!

3.3.3.1 Structure

Name	Description	XML element name	Format / type
Date of creation	Creation date/time of message	creationTime	xsd:dateTime
Gas Day	The gasday whose nomination lines are listed in the message.	date	xsd:dateTime
Error message	In the event of error Error message.	generalErrorText	xsd:String
Error code	In the event of error Error message code.	generalErrorCode	xsd:String
Serial number	The serial number of the nomination line	lineNumber	xsd:Number
Network Point ID	The IP code of the network point for which the nomination has been entered.	networkPoint	xsd:String
Network User Partner ID	The IP User Code of the Network User Partner.	shipperPair	xsd:String
Gashour	The serial number of the gashour to which the quantity refers to. Value set: 1-25	gasHour	xsd:Number
Hourly Quantity	The nominated quantity for a given gashour in kWh/hour.	quantity	xsd:Number

3.3.3.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetNominationResponse xmlns="http://domain.service.fgsz.hu">
      <creationTime>2018-02-16T10:06:46.757</creationTime>
      <date>2018-03-07</date>
      <generalErrorText xsi:nil="true"/>
      <generalErrorCodee xsi:nil="true"/>
      <nominationLine>
        <lineNumber>1</lineNumber>
        <networkPoint codingScheme="ZZZ">PONTCODE</networkPoint>
        <shipperPair codingScheme="ZZZ">SHIPPERCODE</shipperPair>
        <hourlyQuantity>
          <gasHour>1</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>2</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>3</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>4</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>5</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>6</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>7</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>8</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>9</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>10</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>11</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>12</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>13</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>14</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
        <hourlyQuantity>
          <gasHour>15</gasHour>
          <quantity measureUnit="KW1">0</quantity>
        </hourlyQuantity>
      </nominationLine>
    </GetNominationResponse>
  </s:Body>
</s:Envelope>
```



```

    <gasHour>16</gasHour>
    <quantity measureUnit="KW1">0</quantity>
  </hourlyQuantity>
</hourlyQuantity>
  <gasHour>17</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>18</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>19</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>20</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>21</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>22</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>23</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>24</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</hourlyQuantity>
  <gasHour>25</gasHour>
  <quantity measureUnit="KW1">0</quantity>
</hourlyQuantity>
</nominationLine>
<status>NominationPortfolio_Open</status>
<success>true</success>
<version>0</version>
</GetNominationResponse>
</s:Body>
</s:Envelope>

```

3.3.3.3 Xml Example – In the event of error

```

<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/GetNomination</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>2018-05-17T14:21:00.963Z</u:Created>
        <u:Expires>2018-05-17T14:26:00.963Z</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">
    <GetNominationResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </GetNominationResponse >
  </s:Body>
</s:Envelope>

```

3.4 SENDING IN/SUBMITTING TRADE OFFERS/BIDS EDIGAS V6 (SaveTradeNominationInEdigasV6)

3.4.1 Description

The IP system allows network users to submit transaction notifications for a given gasday over webservice in a NOMINT document that is adapted for the Edigas version 6 schema.

Data may only be received for such a respective gas day that is not completely closed, ie. the status of the portfolios is not All Closed.

This method works the same way as the SaveTradeNomination, except, that only Edigas v6 Nomination Document is accepted and the IP system produces Trade NOMINT cycle document, and Trade NOMRES for acknowledgement.

Trade matching runs the same way as for manual recording/filing. NOMRES is made after that. The cycle documents can be seen at the cycle document view.

Cancel and Delete functions can be made over this method filling the amount with zero of an already existing trade. In this case the system also produces cycle documents NOMINT Trade filled with zero amount when submitting. And NOMRES Trade is produced without the cancelled or deleted trade when the state of the trade changes to deleted or canceled.

Name of the proposed method: **SaveTradeNominationInEdigasV6**

3.4.2 Message with request

In a SaveTradeNominationInEdigasV6 block, you can transfer one or more transaction notifications to the IP system containing a standard Edig@s Nomination_Document block of version 6.

A transaction notifications can be specified with multiple network user pairs (ExternalAccounts) for one Network Point (Connection Point).

The basic structure of Nomination_Document is setup as follows:

- InternalAccount (exactly 1)
 - ConnectionPoint (exactly 1)
 - NominationType
 - ExternalAccount (repetitive)
 - Period (repetitive)

At least one of the repetitive blocks must be included.

Policies, specialties, restrictions/constrains:

- IssuerMarketParticipantMarketRoleCode: always „ZSH”.
- RecipientMarketParticipantMarketRoleCode: always „ZSO”.
- codingScheme= for "305" filling must take place with EIC code
- codingScheme= for "ZSO" filling must take place with internal IPNew code
- NominationType: A02 –two-sided
- Direction: Z02- Acquiring, Z03- Disposing
- measureUnit.code: always KW1
- **TimeIntervals must cover the whole gasday.**
- quantity.amount: according to the measureUnit this must be an hourly amount. Eg.: if the trade is 24.000 kWh/day, then the amount must be filled with 1000kWh/h on a 24 hour

gasday. The IP system multiplies the amount with the number of the gashours found in the **timeInterval** tag and saves 24.000 into the portfolio. If there is a residual value, then it can be added to a single period containing only one gashour.

- entering validityperiod: the gasday must be specified in UTC to be filled with edigas period marker: two strings separated by slash symbol

3.4.2.1 Structure

Name	Description	XML element name	Format / type
Nomination document	Edig@s specification: https://www.edigas.org/version-6-1/ (2.2 Nomination Document (VTP OTC))	Nomination_Document	xml

3.4.2.2 Xml Example

Example 1: when the daily amount is 24000 kWh/day

```
<saveNominationInEdigasRequestV6 xmlns="http://domain.service.fgsz.hu">
  <Request>
    <q1:Nomination Document xmlns:q1="urn:easee-
gas.eu:edigas:BrpNominationAndMatching:NominationDocument:6:0:0">
      <q1:identification>Edi6Trade1126</q1:identification>
      <q1:version>1</q1:version>
      <q1:documentCode>02G</q1:documentCode>
      <q1:applicationContext codingScheme="ZSO"></q1:applicationContext>
      <q1:creationDateTime>2022-02-23T14:48:36Z</q1:creationDateTime>
      <q1:validityPeriod>2022-02-24T05:00Z/2022-02-25T05:00Z</q1:validityPeriod>
      <q1:issuer_MarketParticipant.identification
codingScheme="ZSO">SHIPPERCODE1</q1:issuer_MarketParticipant.identification>
      <q1:issuer_MarketParticipant.marketRole.roleCode>ZSH</q1:issuer_MarketParticipant.marketRole.r
oleCode>
      <q1:recipient_MarketParticipant.identification codingScheme="305">21X-HU-A-A0A0A-
8</q1:recipient_MarketParticipant.identification>
      <q1:recipient_MarketParticipant.marketRole.roleCode>ZSO</q1:recipient_MarketParticipant.market
Role.roleCode>
      <q1:Internal_Account>
        <q1:internalAccount codingScheme="ZSO">SHIPPERCODE1</q1:internalAccount>
        <q1:ConnectionPoint>
          <q1:identification codingScheme="305">POINTEICCODE</q1:identification>
          <q1:measureUnit.unitOfMeasureCode>KW1</q1:measureUnit.unitOfMeasureCode>
          <q1:NominationType>
            <q1:nominationCode>A02</q1:nominationCode>
            <q1:External_Account>
              <q1:externalAccount
codingScheme="ZSO">SHIPPERCODE2</q1:externalAccount>
              <q1:Period>
                <q1:timeInterval>2022-02-24T05:00Z/2022-02-
25T05:00Z</q1:timeInterval>
                <q1:direction.gasDirectionCode>Z03</q1:direction.gasDirectionCode>
                <q1:quantity.amount>1000</q1:quantity.amount>
              </q1:Period>
            </q1:External_Account>
          </q1:NominationType>
        </q1:ConnectionPoint>
      </q1:Internal_Account>
    </q1:Nomination_Document>
  </Request>
</saveNominationInEdigasRequestV6>
```

Example : when the daily amount is 24.004kWh/day

```
<saveNominationInEdigasRequestV6 xmlns="http://domain.service.fgsz.hu">
  <Request>
```

```

    <q1:Nomination_Document xmlns:q1="urn:easee-
gas.eu:edigas:BrpNominationAndMatching:NominationDocument:6:0:0">
      <q1:identification>Edi6Trade1126</q1:identification>
      <q1:version>1</q1:version>
      <q1:documentCode>02G</q1:documentCode>
      <q1:applicationContext codingScheme="ZSO"></q1:applicationContext>
      <q1:creationDateTime>2022-02-23T14:48:36Z</q1:creationDateTime>
      <q1:validityPeriod>2022-02-24T05:00Z/2022-02-25T05:00Z</q1:validityPeriod>
      <q1:issuer_MarketParticipant.identification
codingScheme="ZSO">SHIPPERCODE1</q1:issuer_MarketParticipant.identification>

      <q1:issuer_MarketParticipant.marketRole.roleCode>ZSH</q1:issuer_MarketParticipant.marketRole.r
oleCode>
      <q1:recipient_MarketParticipant.identification codingScheme="305">21X-HU-A-A0A0A-
8</q1:recipient_MarketParticipant.identification>

      <q1:recipient_MarketParticipant.marketRole.roleCode>ZSO</q1:recipient_MarketParticipant.market
Role.roleCode>
      <q1:Internal_Account>
        <q1:internalAccount codingScheme="ZSO">SHIPPERCODE1</q1:internalAccount>
        <q1:ConnectionPoint>
          <q1:identification codingScheme="305">39YSINBP00000NE</q1:identification>
          <q1:measureUnit.unitOfMeasureCode>KW1</q1:measureUnit.unitOfMeasureCode>
          <q1:NominationType>
            <q1:nominationCode>A02</q1:nominationCode>
            <q1:External_Account>
              <q1:externalAccount
codingScheme="ZSO">SHIPPERCODE2</q1:externalAccount>
              <q1:Period>
                <q1:timeInterval>2022-02-23T04:00Z/2022-02-
24T05:00Z</q1:timeInterval>
                <q1:direction.gasDirectionCode>Z03</q1:direction.gasDirectionCode>
                <q1:quantity.amount>1000</q1:quantity.amount>
              </q1:Period>
              <q1:Period>
                <q1:timeInterval>2022-02-23T04:00Z/2022-02-
24T05:00Z</q1:timeInterval>
                <q1:direction.gasDirectionCode>Z03</q1:direction.gasDirectionCode>
                <q1:quantity.amount>1004</q1:quantity.amount>
              </q1:Period>
            </q1:External_Account>
          </q1:NominationType>
        </q1:ConnectionPoint>
      </q1:Internal_Account>
    </q1:Nomination_Document>
  </Request>
</saveNominationInEdigasRequestV6>

```

3.4.3 Message with response

The IP system returns the success or error message in the saveNominationInEdigasResponseV6 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.
E0002	Gas period cannot be null!
E0035	Scheme validation warning!
E0048	Scheme validation warning! Wrong namespace.
IN0002	Only nominations for the given gasday and for any of the subsequent 60 days may be submitted.

IN0012	The shipper is in an inactive status and thus can not edit the portfolio.
IN0016	The network point was not found.
IN0017	The RH partner's EIC code is not found in the database.
IN0020	The direction code is not found in the database.: The direction code may be the following: in case of supply/in/ Z02 in case of taking/out/ Z03
IN0023	The shipper of the portfolio must be different from the RH partner of the deal.
IN0027	On a given gasday, at a given network point, in a given direction only one transaction notification can be recorded in the system between the same shipper and trading partner.
IN0038	Shipper pair code ({1}) can not be found in the database.
IN0047	Offered Quantity can only be positive!
IN0049	There is no data for GasHour.
IN0053	Trade row creation is not enabled on Nomination portfolio "Fully Closed" state.
IN0058	The networkuser must be the same as the sender.
IN0059	The xml in the request is empty or in wrong namespace.
IN0064	Because of the nomination closing, pls try to save again in a few minutes.
IN0065	The nomination portfolio has been modified through multiple functions at the same time. Please try again.
IN0081	Timeinterval is duplicated or overlapping with other periods.
IN0082	Timeinterval is not correct or not on same gasday as the portfolio.
IN0099	Nomination portfolio not found or insufficient privileges!

3.4.3.1 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

3.4.3.2 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://domain.service.fgsz.hu/SaveTradeNominatioInEdigasV6</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <saveNominationInEdigasResponseV6 xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true" />
      <generalErrorText xsi:nil="true" />
      <success>true</success>
    </saveNominationInEdigasResponseV6>
  </s:Body>
```

3.4.3.3 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://domain.service.fgsz.hu/SaveTradeNominatioInEdigasV6</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <saveNominationInEdigasResponseV6 xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode>0001</generalErrorCode>
      <generalErrorText>[IN0027] (2020. 12. 02. 0:00:00, MGP, 39YSINBP000000NE, Z02,
SHIPPERCODE1) On a given gasday, at a given network point, in a given direction only one
transaction notification can be recorded in the system between the same shipper and trading
partner.</generalErrorText>
      <success>false</success>
    </saveNominationInEdigasResponseV6>
  </s:Body>
```

3.5 SENDING IN/SUBMITTING TRADE OFFERS/BIDS (SaveTradeNomination)

3.5.1 Description

The IP system allows network users to **enter transaction notifications** for a given gasday over webservice.

Data may only be received for such a respective gas day that is not completely closed, ie. the status of the portfolios is not All Closed.

Trade matching runs the same way as for manual recording/filing.

Cancel and Delete functions can be made over this method filling the amount with zero of an already existing trade.

Name of the proposed method: **SaveTradeNomination**

3.5.2 Message with request

In a saveTradeAgreementProposalRequest block, you can transfer one or more transaction notifications to the IP system in repetitive tradeAgreement blocks.

Policies, specialties, restrictions/constrains:

- At present, in the response messages structures, the attribute value for encoding scheme is "ZSO" or "305" depending on the partner's communicating code type.
- codingScheme= for "305" it must be filled with an EIC code

- codingScheme= for "ZZZ" it must be filled with an internal code
- measureUnit.code: always KW2

3.5.2.1 Structure

Fields to be filled out and the fields of the tradeAgreement block:

Name	Description	XML element name	Format / type
Date of creation	Date of creation of message. The new IP does not use the field.	creationDate	xsd:dateTime
Unique identifier of the message	Unique identifier generated by the sender, which identifies exactly one of the messages he has ever sent. The new IP does not use the field.	messageID	xsd:Number
Sender's ID	The sender's or the partner's EIC or IP code that assigned the actual sender with sending the message.	sender	xsd:String
Subject gasday	The Gas Day of the Transaction Notification.	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)
Serial number	The serial number of the transaction notification sent in.	lineNumber	xsd:Number
Network Point ID	The code for the network point for which/where the deal takes place.	location	xsd:String
Trade Partner Identifier	The EIC or IP code of the partner who is a trading partner in the transaction notification.	partner	xsd:String
Direction	The direction of the network point at which the trading takes place. Value set: IN, OUT.	direction	xsd:String
Type	Type of transaction notification. Value set: Acquiring, Disposing	type	xsd:String
Daily quantity	Quantity submitted by the network user in kWh/day.	dailyQuantity	xsd:Number
Note	Note	comment	xsd:String

3.5.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"
xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:saveTradeAgreementProposalRequest>
      <dom:messageHeader>
        <dom:creationDate>2022-02-23T22:30:47Z</dom:creationDate>
        <dom:messageId>1</dom:messageId>
        <dom:sender codingScheme="ZZZ">SHIPPERCODE1</dom:sender>
      </dom:messageHeader>
    </dom:saveTradeAgreementProposalRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

</dom:messageHeader>
<dom:subjectGasDay>2022-02-25</dom:subjectGasDay>
<dom:tradeAgreement>
  <dom:lineNumber>1</dom:lineNumber>
  <dom:location codingScheme="ZZZ">POINTCODE</dom:location>
  <dom:partner codingScheme="ZZZ">SHIPPERCODE2</dom:partner>
  <dom:direction>OUT</dom:direction>
  <dom:type>Acquiring</dom:type>
  <dom:dailyQuantity measureUnit="KW2">900</dom:dailyQuantity>
  <dom:comment>?</dom:comment>
</dom:tradeAgreement>
</dom:saveTradeAgreementProposalRequest>
</soapenv:Body>
</soapenv:Envelope>

```

3.5.3 Message with response

The IP system returns the success or error message in the saveTradeAgreementProposalResponse block.

- At present, in the response messages structures, the attribute value for encoding scheme is "ZSO" or "305" depending on the partner's communicating code type.
-
- codingScheme= for "305" it must be filled with an EIC code
- codingScheme= for "ZZZ" it must be filled with an internal code

Error codes:

Error code	Error message
IN0002	Only nominations for the given gasday and for any of the subsequent 60 days may be entered.
IN0012	The shipper is inactive and can not edit the portfolio.
N0020	The direction code is not found in the database.: The direction code may be the following: in case of supply/in/ Z02 in case of taking/out/ Z03
IN0023	The shipper of the portfolio must be different from the RH partner of the deal.
IN0027	On a given gasday, at a given network point, in a given direction only one transaction notification can be recorded in the system between the same shipper and trading partner.
IN0038	Shipper pair code ({1}) can not be found in the database.
IN0039	Transaction type ({0}) can not be found.
IN0047	Offered Quantity can only be positive!
IN0052	Transaction notification may only be entered for the specific gasday and for any of the following 60 days.
IN0055	The direction code may be the following: for input/supply IN, for output/taking OUT.
IN0064	Because of the nomination closing, pls try to save again in a few minutes.
IN0065	The nomination portfolio has been modified through multiple functions at the same time.

	Please try again.
IN0086	Invalid measureUnit.unitOfMeasureCode KW2! Valid values are: KW1
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.
E0048	Scheme validation warning! Wrong namespace.
E0035	Scheme validation warning!

3.5.3.1 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.	success	xsd:String

3.5.3.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <saveTradeAgreementProposalResponse xmlns="http://domain.service.fgsz.hu">
      <errorMessage />
      <errorMessageCode xsi:nil="true"/>
      <success>true</success>
    </saveTradeAgreementProposalResponse>
  </s:Body>
</s:Envelope>
```

3.5.3.3 Xml Example – In the event of error

```
<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/SaveTradeNomination</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>2018-05-17T14:21:00.963Z</u:Created>
        <u:Expires>2018-05-17T14:26:00.963Z</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">
    < SaveTradeNominationResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </ SaveTradeNominationResponse >
  </s:Body>
</s:Envelope>
```

3.6 QUERY/REQUEST TRADE OFFERS/BIDS (GetTradeNomination)

3.6.1 Description

The IP system allows network users **to query transaction notifications** over webservice for a given gasday.

Name of proposed method: **GetTradeNomination**

It contains the latest available transaction notifications in the latest version balancing portfolio of the querying network user up to the time of the data retrieval request.

3.6.2 Message with request

In a GetTradeAgreementsRequest block, you can query the gas transaction notifications of the network user for a particular Subject gasday.

3.6.2.1 Structure

Name	Description	XML element name	Format / type
Date of creation	Date of creation of message. The new IP does not use the field.	creationDate	xsd:dateTime
Unique identifier of the message	An identifier generated by the sender that identifies exactly one of the messages he has ever sent. The new IP does not use the field.	messageID	xsd:Number
Sender ID	The EIC or IP code of the sender or the partner who assigned the actual sender with sending the message. The accepted coding schemes are ZZZ, which means the IP code, or 305, which means EIC code	sender	xsd:String
Subject gasday	The gasday the transaction notifications for which are queried.	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)

3.6.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"
xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:GetTradeAgreementsRequest>
      <dom:messageHeader>
        <dom:creationDate>2022-02-23T22:30:47Z</dom:creationDate>
        <dom:messageId>1</dom:messageId>
        <dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2022-02-23</dom:subjectGasDay>
    </dom:GetTradeAgreementsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

3.6.3 Message with response

The IP system returns in the GetTradeAgreementsResponse block all the transaction notifications for the retrieved gasday in repetitive agreement blocks regarding the network user.

Policies, specialties, restrictions/constrains:

- At present, in the responsemessagestructures, the attribute value for encoding scheme is "ZZZ" or "305" depending on the partner's communicating code type. EXCEPTION: due to specific partner requirements, the coding scheme of the GetTradeAgreementsResponse and the GetNominationResponse is always „ZZZ" filled with internal code
- codingScheme= for "305" it must be filled with an EIC code
- codingScheme= for "ZZZ" it must be filled with an internal code

- measureUnit.code: always KW2

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.

3.6.3.1 Structure

Name	Description	XML element name	Format / type
Status	Status of Transaction Notification. Set of values according to the EntityStateld in the new IP: Matched, Created, Erased, Marked Cancel, Cancelled, Mismatched	status	xsd:String
Network Point ID	The code for the network point for which/where the trading takes place.	location	xsd:String
Seller Network user ID	In case of disposing the trading partner's code or EIC code In case of acquiring the networkuser code or EIC code	seller	xsd:String
Buyer Network user ID	In case of disposing the networkuser code or EIC code In case of acquiring the trading partner's code or EIC code	buyer	xsd:String
Daily quantity	The quantity submitted by the network user for a created or canceled case, otherwise the allocated quantity is expressed in kWh/day.	dailyQuantity	xsd:Number
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

3.6.3.2 Xml Example –In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetTradeAgreementsResponse xmlns="http://domain.service.fgsz.hu">
      <agreement>
        <status>Created</status>
        <location codingScheme="ZZZ">PONTCODE</location>
        <seller codingScheme="ZZZ">PARTNERCODE</seller>
        <buyer codingScheme="ZZZ">KERESKEDELMPARTNERCODE</buyer>
        <dailyQuantity measureUnit="KW2">900</dailyQuantity>
      </agreement>
      <generalErrorText xsi:nil="true"/>
    </GetTradeAgreementsResponse>
  </s:Body>
</s:Envelope>
```

```

    <generalErrorCode xsi:nil="true"/>
    <success>true</success>
  </GetTradeAgreementsResponse>
</s:Body>
</s:Envelope>

```

3.6.3.3 Xml Example – In the event of error

```

<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/GetTradeNomination</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>2018-05-17T14:21:00.963Z</u:Created>
        <u:Expires>2018-05-17T14:26:00.963Z</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">
    <GetTradeAgreementsResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </GetTradeAgreementsResponse>
  </s:Body>
</s:Envelope>

```

3.7 QUERY/REQUEST OF PRIMARY CAPACITY ALLOCATIONS RESULTING FROM OVERNOMINATION (GetOvernominatedTradesV3)

3.7.1 Description

The IP system allows network users to **query data of capacity allocations resulting from overnomination** over a webservice for a given time interval.

The data service retrieves data on overnomination capacity submitted for all network points and gas days for the given period.

Name of the proposed method: **GetOvernominatedTradesV3**

3.7.2 Message with request

In this request message, the caller Network user provides its own EIC code and the query time interval.

3.7.2.1 Structure

Name	Description	XML element name	Format / type
EIC code of party calling request	The EIC code of the Network user sending the request	eicCode	xsd:String
Start of Query	The starting gas day from which the capacities	from	xsd:date

Interval	obtained in the overnomination respect		(YYYY-MM-DD)
End of Query interval	The end gas day to which the capacities obtained in the overnomination respect	to	xsd:date (YYYY-MM-DD)

3.7.2.2 Xml Példa

```
<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://domain.service.fgsz.hu/GetOvernominatedTradesV3</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <getOvernominatedTrades>
      <request>
        <EicCode>SHIPPEREICCODE</EicCode>
        <From>2022-02-20</From>
        <To>2022-02-23</To>
      </request>
    </getOvernominatedTrades>
  </s:Body>
</s:Envelope>
```

3.7.3 Message with response

Error codes:

Error code	Error message
SM0001	The Shipper with EIC code '{0}' cannot be found.
CST100	The interval specified in the query is larger than the number of days allowed in the relevant system parameter '{375 > 90!}'
E0013	Date type field format is invalid!
CST101	The '{1}' row with ID '{0}' not found!
CST102	The '{0}' field is empty!

3.7.3.1 Structure

Name	Description	XML element name	Format / type
Capacity Transaction code	Transaction code of the capacity obtained in the overnomination	tradeID	xsd: Number
Balancing portfolio code and version	Code and version of the balancing portfolio in which obtained overnomination was submitted	auctionName	xsd:String

Date of submission of overnomination	Date of submission of the related overnomination	auctionStart	xsd:dateTime
Date of submission of overnomination	Date of submission of the related overnomination	auctionEnd	xsd:dateTime
Network User EIC code	The EIC code of the Network user sending the request	networkUserEic	xsd:String
Network User code	The IP code of the Network user sending the request	networkUserCode	xsd:String
Network User name	The name of the Network user sending the request	networkUserName	xsd:String
IP Network point EIC code	The EIC code of the network point to which the overnomination has been submitted	networkPointEic	xsd:String
IP Network point name	The name of the network point to which the overnomination has been submitted	networkPointName	xsd:String
IP Network point Code	The IP code of the network point to which the overnomination has been submitted	networkPointNominationId	xsd:String
Product type	The Product type of capacity obtained in the overnomination: WITHINDAY	productType	xsd:String
Instrument of Capacity	The instrument of capacity obtained in the overnomination	instrument	xsd:String
Start of the capacity period	Start of the capacity period obtained in the overnomination	validityStart	xsd:dateTime
End of the capacity period	End of the capacity period obtained in the overnomination	validityEnd	xsd:dateTime
Capacity Type	Type of the capacity obtained in the overnomination: Unbundled	capacityType	xsd:String
Trade direction	Value set according to Trading Direction Code library (Code Field)	gasFlow	xsd:String
Price step type	Not interpreted, will not be filled (Empty Node)	priceStepMode	xsd:String
Quantity of offered capacity	Not interpreted, will not be filled (Empty Node)	offeredCapacity	xsd:String
Quantity of capacity	Quantity of the capacity obtained in the overnomination	allocatedCapacity	xsd:Number
Reserve price	Calculated field: Reserve price = Capacity fee/Quantity of capacity	reservePrice	xsd:Number

Auction premium basis	Not interpreted, will not be filled (Empty Node)	AuctionPremiumBasis	xsd:String
Clearing unit price	Calculated field: Clearing unit price = Capacity fee/Quantity of capacity	clearingUnitPrice	xsd:String
Auction premium	Not interpreted, will not be filled (Empty Node)	auctionPremium	xsd:String
Contract number	Capacity contract number for overnominated capacity	confirmationId	xsd:String
Capacity measurement unit	Measurement unit of capacity obtained in the overnomination. In every case: kWh/h/WithinDay	capacityUnit	xsd:String
Currency measurement unit	In every case: HUF/kWh/h/WithinDay	currencyUnit	xsd:String
Currency	In every case: HUF	currency	xsd:String
Capacity fee	Capacity fee of the capacity obtained in the overnomination	capacityFee	xsd:Number
Auction unit price	Calculated field: Auction unit price = Auction fee/ Quantity of capacity Value is always: 0	auctionUnitPrice	xsd:Number
Clearing price	Same as the value of the Reserve price field	clearingPrice	xsd:Number
Auction fee	Value is always: 0	auctionFee	xsd:Number
Clearing fee	Fee for capacity obtained in the overnomination	clearingFee	xsd:Number
EIC code of TSO	EIC code of the related TSO in the overnomination: EIC code of FGSZ	tsoEic	xsd:String
Name of TSO	EIC code of the related TSO in the overnomination: FGSZ Zrt.	tsoName	xsd:String
EIC code of Exit TSO	EIC code of the Exit TSO interpreted in perspective of the flow direction of the capacity involved in the overnomination	exitTsoEic	xsd:String
EIC code of Entry TSO	EIC code of the Entry TSO interpreted in perspective of the flow direction of the capacity involved in the overnomination	exitTsoEic	xsd:String
Capacity quality of the Exit TSO	Capacity quality of overnominated capacity, value is always: INT	capacityQualityExitTSO	xsd:String

	It is filled only if the exitTso is FGSZ		
Capacity quality of the Entry TSO	Capacity quality of overnominated capacity, value is always: INT It is filled only if the entryTso is FGSZ	capacityQualityEntryTSO	xsd:String
Amount of locked financial limit	The amount of the security demand for the capacity fee	creditLimitLock	xsd:Number
Offer level id for incremental auctions	Not interpreted, will not be filled (Empty Node)	offerLevelId	xsd:String
Auction characteristics	Value is always: Overnomination	auctionCharacteristics	xsd:String
TSO to whom the distribution was created	Not interpreted, will not be filled (Empty Node)	tsoEic	xsd:String
Code of the balancing group	Not interpreted, will not be filled (Empty Node)	balancingGroupCode	xsd:String
Capacity conversion information	Not interpreted, will not be filled (Empty Node)	capacityConversions	xsd:List
capacity upgrade information	Not interpreted, will not be filled (Empty Node)	capacityUpgrades	xsd:List
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.	success	xsd:Boolean

3.7.3.2 Xml Example –In the event of success

```

<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://domain.service.fgsz.hu/GetOvernominatedTradesV3</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <getOvernominatedTradesResponseV3 xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true" />
      <generalErrorText xsi:nil="true" />
      <success>true</success>
      <trades>
        <trade>
          <auctionName>SHIPPERCODE20210731v2</auctionName>
          <tradeID>439757</tradeID>
          <auctionStart>2021-07-30T12:07:03.89</auctionStart>
          <auctionEnd>2021-07-30T12:07:03.89</auctionEnd>
          <tsoEic>21X-HU-A-A0A0A-8</tsoEic>
        </trade>
      </trades>
    </getOvernominatedTradesResponseV3>
  </s:Body>
</s:Envelope>

```



```

    <tsoName>FGSZ Zrt</tsoName>
    <networkUserEic>EICCODE</networkUserEic>
    <networkUserCode>SHIPPERCODE</networkUserCode>
    <networkUserName>SHIPPERNAME</networkUserName>
    <networkPointEic>39ZKAABA00011GNE</networkPointEic>
    <networkPointName>Aba</networkPointName>
    <networkPointNominationId>KAABA00011GN</networkPointNominationId>
    <exitTsoEic>21X-HU-A-A0A0A-8</exitTsoEic>
    <capacityQualityExitTSO>INT</capacityQualityExitTSO>
    <entryTsoEic />
    <capacityQualityEntryTSO />
    <productType>WITHINDAY</productType>
    <instrument>2021.07.31-01</instrument>
    <validityStart>2021-07-31T06:00:00</validityStart>
    <validityEnd>2021-08-01T06:00:00</validityEnd>
    <capacityType>Unbundled</capacityType>
    <gasFlow>Physical</gasFlow>
    <priceStepMode />
    <offeredCapacity />
    <allocatedCapacity>200</allocatedCapacity>
    <capacityUnit>kWh/h/WithinDay</capacityUnit>
    <reservePrice>5.6370720000</reservePrice>
    <currencyUnit>HUF/kWh/h/WithinDay</currencyUnit>
    <currency>HUF</currency>
    <capacityFee>1127.41</capacityFee>
    <auctionPremiumBasis />
    <auctionPremium />
    <auctionUnitPrice>0</auctionUnitPrice>
    <auctionFee>0</auctionFee>
    <clearingPrice>5.6370720000</clearingPrice>
    <clearingUnitPrice>5.6370720000</clearingUnitPrice>
    <clearingFee>1127.41</clearingFee>
    <creditLimitLock>1127.41</creditLimitLock>
    <confirmationId>FGSZ_RHSZ-00014/WD/2021.07.31-01/00001</confirmationId>
    <auctionCharacteristics>Overnomination</auctionCharacteristics>
    <offerLevelId />
    <balancingGroupCode />
    <capacityConversions />
    <capacityUpgrades />
  </trade>
</trades>
</getOvernominatedTradesResponseV3>
</s:Body>
</s:Envelope>

```

3.7.3.3 Xml Example – In the event of error

```

<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://domain.service.fgsz.hu/GetOvernominatedTradesV3</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <getOvernominatedTradesResponseV3 xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode>[SM0001]</generalErrorCode>
      <generalErrorText>[SM0001] Nem található Shipper '39XWIEEHUNGARIAQ' EIC
kóddal.</generalErrorText>
      <success>false</success>
      <trades />
    </getOvernominatedTradesResponseV3>
  </s:Body>
</s:Envelope>

```

4 Allocation services

4.1 Business Business environment

The system operator licensee carries out daily operative data services that he makes available to the access right-holders over the IT platform. Allocation module dataservice/reporting is used to communicate the result of the allocation.

In the data service, for the network users only the network points are displayed to which they are linked as shippers.

Note: FGSZ provides similar data in the same structure also to the related system operators.

4.2 QUERY/REQUEST FOR DAILY FINAL ALLOCATIONS (GetAllocationDailyFinal)

4.2.1 Description

This data service is used to report the Daily type, "final" status result of the allocation, typically regarding the previous gasday (or for the gasday specified in the request).

Note: Typically, the FGSZ provides the respective (for the previous gasday) data from 14.00 pm on the day following the Subject gasday.

Name of the proposed method: **GetAllocationDailyFinal**

4.2.2 Message with request

The request message contains the gasday, the allocation data of which the network user wants to retrieve.

4.2.2.1 Structure

Name	Description	XML element name	Format / type
Date of creation	Date of creation of message. The new IP does not use the field.	creationDate	xsd:dateTime
Unique identifier of the message	An identifier generated by the sender that identifies exactly one of the messages he has ever sent. The new IP does not use the field.	messageID	xsd:Number
Sender ID	The EIC or IP code of the sender or the partner who assigned the actual sender with sending the message. The accepted coding schemes are ZZZ, which means the IP code, or 305, which means EIC code	sender	xsd:String
Subject gasday	Subject gasday	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)

4.2.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv=„http://www.w3.org/2003/05/soap-envelope“ xmlns:dom=„http://domain.service.fgsz.hu“>
  <soapenv:Header/>
  <soapenv:Body>
    <dom:GetAllocationDailyFinalRequest>
      <dom:messageHeader>
        <dom:creationDate>2018-03-01</dom:creationDate>
        <dom:messageId>001</dom:messageId>
        <dom:sender codingScheme=„ZZZ“>SHIPPERCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-01</dom:subjectGasDay>
    </dom:GetAllocationDailyFinalRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

4.2.3 Message with response

In the response, the allocation lines for the network points used by the network user are contained. The response also includes the title/right transfer transactions of the network user.

The response message contains the allocation lines in the Documents block according to the Edig@ standard.

Policies, specialties, restrictions/constrains:

In the Documents block of the response, there are as many allocationDocument blocks as high the number of different related system operators the given network user belongs to, and within this there are as many connectionPoint blocks as many allocation lines.

- Version: currently it is always 1.
- Type: always 96G.
- ContractReference: always the Identification Code.
- IssuerMarketParticipantMarketRoleCode: always „ZSO“.
- RecipientMarketParticipantMarketRoleCode: For network users always „ZSH“.
- At present, in the response messages structures, the attribute value for encoding scheme is "ZSO" or "305" depending on the partner's communicating code type.
- codingScheme= for "305" it must be filled with an EIC code
codingScheme= for "ZSO" it must be filled with an internal code
- RecipientMarketParticipantIdentification: For network users the network user's EIC code;
- ConnectionPointIdentification: EIC code, „305" code scheme.
- AllocationSchemeCode:
 - allocation lines that came from nomination, have the code 04G (not OBA, not of backhaul type).
 - the code of the "backhaul nomination" type allocation line is 12G;
 - the code for the OBA type allocation line is 06G;
 - the code for the title/right type allocation line is 11G (only for shipper, in daily/monthly case).

On the FGSZ receiver side a verification takes place for the partner code in the Sender block. The system checks whether the sent partner code is the same as the IP ID of the partner linked to the authenticated user. The user who initiates the request may only retrieve or upload data to the system on his own behalf.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field. The registered user's partner code does not match the code in the sender field.
SS0002	The network user code is not found in the database. The network user code is not found in the database.

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. In the event of non-success: false.	succes	xsd:String
Allocation documents	List Element that contains the resulting allocation documents.	Documents	
Allocation Data	Edig@s specification: https://www.edigas.org/wp-content/Downloads/4-urn-easee-gas-eu-edigas-edigas5_1-SettlementProcess_v4r0-2018-02-19.pdf (4.3. Information model of Allocation Document (ALOCAT))	Allocation_Document	

4.2.3.2 Xml Example – In the event of success

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetAllocationDailyFinalResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <generalErrorCode xsi:nil="true" />
      <generalErrorText xsi:nil="true" />
      <Documents>
        <Allocation_Document xmlns="urn:easee-gas.eu:edigas:settlement:allocationdocument:5:1:3">
          <identification>1a0c6a5d1bfe4f428543ad68616f69d3</identification>
          <version>1</version>
          <type>87G</type>
          <creationDateTime>2018-03-07T14:20:33.0095911+01:00</creationDateTime>
          <validityPeriod>2018-03-07T13:50Z/2018-03-07T14:50Z</validityPeriod>
          <contractReference>1a0c6a5d1bfe4f428543ad68616f69d3</contractReference>
          <contractType>CT</contractType>
          <issuer_MarketParticipant.identification xsi:type="PartyType" codingScheme="305">NNOEICCODE</issuer_MarketParticipant.identification>
          <issuer_MarketParticipant.marketRole.code>ZSO</issuer_MarketParticipant.marketRole.code>
          <recipient_MarketParticipant.identification xsi:type="PartyType" codingScheme="305">
            >SHIPPEREICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code>ZSH</recipient_MarketParticipant.marketRole.code>
          <ConnectionPoint>
            <identification codingScheme="305">39ZKAALMASF11GNW</identification>
            <measureUnit.code>KW1</measureUnit.code>
          <Account>
            <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
            <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
            <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
            <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
          <TimeSeries>

```

```

    <type>Z01</type>
    <Period>
      <timeInterval>2018-03-01T05:00Z/2018-03-02T05:00Z</timeInterval>
      <direction.code>Z03</direction.code>
      <quantity.amount>395633</quantity.amount>
      <allocationScheme.code>14G</allocationScheme.code>
      <status.code>03G</status.code>
    </Period>
  </TimeSeries>
</Account>
</ConnectionPoint>
<ConnectionPoint >
  <identification codingScheme="305">39ZKAALMASF11GNW</identification>
  <measureUnit.code>KW1</measureUnit.code>
  <Account>
    <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
    <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
    <externalAccount codingScheme="305">25Y-AB-E---1---N</externalAccount>
    <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
  <TimeSeries>
    <type>Z01</type>
    <Period>
      <timeInterval>2018-03-01T05:00Z/2018-03-02T05:00Z</timeInterval>
      <direction.code>Z03</direction.code>
      <quantity.amount>395634</quantity.amount>
      <allocationScheme.code>14G</allocationScheme.code>
      <status.code>03G</status.code>
    </Period>
  </TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</Documents>
</GetAllocationDailyFinalResult>
</GetAllocationDailyFinalResponse>
</s:Body>
</s:Envelope>

```

4.2.3.3 Xml Example – In the event of error

```

<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/GetAllocationDailyFinalResponse</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>2018-05-17T14:21:00.963Z</u:Created>
        <u:Expires>2018-05-17T14:26:00.963Z</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">
    <GetAllocationDailyFinalResponse xmlns="http://domain.service.fgsz.hu">
      <success >false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </Documents/ >
  </GetAllocationDailyFinalResponse>
</s:Body>
</s:Envelope>

```

4.3 QUERY/REQUEST FOR DAILY CURRENT ALLOCATIONS (GetAllocationDailyActual)

4.3.1 Description

This data service is used to report the current (latest updated, last version) Daily (or Monthly) type result of an allocation, typically regarding the current gasday (or for the gasday specified in the request).

Name of proposed method: **GetAllocationDailyActual**

4.3.2 Message with request

The request message contains the gasday, the allocation data of which the network user wants to query/request.

4.3.2.1 Structure

See chapter **Hiba! A hivatkozási forrás nem található..**

4.3.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope" xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:GetAllocationDailyActualRequest >
      <dom:request>
        <dom:messageHeader>
          <dom:creationDate>2018-03-02</dom:creationDate>
          <dom:messageId>001</dom:messageId>
          <dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
        </dom:messageHeader>
        <dom:subjectGasDay>2018-03-02</dom:subjectGasDay>
      </dom:GetAllocationDailyActualRequest >
    </soapenv:Body>
  </soapenv:Envelope>
```

4.3.3 Message with response

In the response, the allocation lines for the network points used by the network user are contained. The response also includes title/right transfer deals of the network user.

The response message contains the allocation lines in the Documents block according to the Edig@ standard.

Policies, specialties, restrictions/constrains:

See chapter **Hiba! A hivatkozási forrás nem található..**

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.

4.3.3.1 Structure

See chapter **Hiba! A hivatkozási forrás nem található..**

4.3.3.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetAllocationDailyActualResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <Documents>
        <Allocation_Document xmlns="urn:easee-gas.eu:edigas:settlement:allocationdocument:5:1:3">
          <identification >db6af2c392d74d20aae1fb192eed4132</identification>
          <version >1</version>
          <type >87G</type>
          <creationDateTime >2018-03-07T12:51:43.8616462+01:00</creationDateTime>
          <validityPeriod >2018-03-07T12:21Z/2018-03-07T13:21Z</validityPeriod>
          <contractReference > db6af2c392d74d20aae1fb192eed4132</contractReference>
          <contractType >CT</contractType>
          <issuer_MarketParticipant.identification xsi:type="PartyType" codingScheme="305" >NNOEICCODE</issuer_MarketParticipant.identification>
          <issuer_MarketParticipant.marketRole.code >ZSO</issuer_MarketParticipant.marketRole.code>
          <recipient_MarketParticipant.identification xsi:type="PartyType" codingScheme="305"
        >SHIPPEREICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code >ZSH</recipient_MarketParticipant.marketRole.code>
          <ConnectionPoint >
            <identification codingScheme="305">39ZKAALMASF11GNW</identification>
            <measureUnit.code>KW1</measureUnit.code>
            <Account>
              <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
              <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
              <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
              <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
              <TimeSeries>
                <type>Z01</type>
                <Period>
                  <timeInterval>2018-03-02T05:00Z/2018-03-03T05:00Z</timeInterval>
                  <direction.code>Z03</direction.code>
                  <quantity.amount>143385</quantity.amount>
                  <allocationScheme.code>14G</allocationScheme.code>
                  <status.code>03G</status.code>
                </Period>
              </TimeSeries>
            </Account>
          </ConnectionPoint>
        </Allocation_Document>
      </Documents>
    </GetAllocationDailyActualResponse>
  </s:Body>
</s:Envelope>
```

4.3.3.3 Xml Example – In the event of error

```
<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/GetAllocationDailyActualResponse</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>2018-05-17T14:34:41.657Z</u:Created>
        <u:Expires>2018-05-17T14:39:41.657Z</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">
    <GetAllocationDailyActualResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>SS0002</generalErrorCode>
      <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
    </Documents/>
  </s:Body>
</s:Envelope>
```

```
</GetAllocationDailyActualResponse>
</s:Body>
</s:Envelope>
```

4.4 QUERY/REQUEST ALLOCATION WITHIN DAY (GetAllocationWithinDay)

4.4.1 Description

Informs the network user about quantities allocated during the gasday, helping to specify more precise nominations when re-nominating. Data service is only available to eligible network users and they receive only the data that in which they are involved as a network user.

The service is available at any time, contains the last version of the latest Within day type allocated quantities updated up to the time of the request.

Name of proposed method: **GetAllocationWithinDay**

4.4.2 Message with request

The request message contains the gasday, the allocation data of which the network user wants to retrieve.

4.4.2.1 Structure

See chapter **Hiba! A hivatkozási forrás nem található..**

4.4.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope" xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:GetAllocationsWithinDayRequest>
      <dom:messageHeader>
        <dom:creationDate>2018-03-02</dom:creationDate>
        <dom:messageId>001</dom:messageId>
        <dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-02</dom:subjectGasDay>
    </dom:GetAllocationsWithinDayRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

4.4.3 Message with response

In the response, the allocation lines for the network points used by the network user are contained. The response message contains the allocation lines in the Documents block according to the Edig@ standard.

Policies, specialties, restrictions/constrains:

See chapter **Hiba! A hivatkozási forrás nem található..** Other additions:

In case of retrieving within day data, the "connectionPoint" block lists as many "Period" blocks as many gashours are included in the queried gasday. The data filling differs from that in the Edig@ document, by the response returning one gashour in the Timeinterval field instead of a full gasday.

If the POD groups are filled for a given day, the fields in the "Period" block get filled by the following correspondence:

- Measured value => allocationScheme.code = 14G
- Without measurement/unmeasured => allocationScheme.code = 07G
- Profilos => allocationScheme.code = 09G

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.

4.4.3.1 Structure

See chapter **Hiba! A hivatkozási forrás nem található.**

4.4.3.2 Xml Example – In the event of success

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetAllocationsWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <Documents>
        <Allocation_Document xmlns="urn:easee-gas.eu:edigas:settlement:allocationdocument:5:1:3">
          <identification >f32abd700c9f4a88afa0f5b45b47f3ab</identification>
          <version >1</version>
          <type >87G</type>
          <creationDateTime >2018-03-07T14:45:56.4163948+01:00</creationDateTime>
          <validityPeriod >2018-03-07T14:15Z/2018-03-07T15:15Z</validityPeriod>
          <contractReference > f32abd700c9f4a88afa0f5b45b47f3ab </contractReference>
          <contractType >CT</contractType>
          <issuer_MarketParticipant.identification xsi:type="PartyType" codingScheme="305">NNOEICCODE</issuer_MarketParticipant.identification>
          <issuer_MarketParticipant.marketRole.code >ZSO</issuer_MarketParticipant.marketRole.code>
          <recipient_MarketParticipant.identification xsi:type="PartyType" codingScheme="305">SHIPPEREICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code >ZSH</recipient_MarketParticipant.marketRole.code>
          <ConnectionPoint >
            <identification codingScheme="305">39ZKAALMASF11GNW</identification>
            <measureUnit.code>KW1</measureUnit.code>
            <Account>
              <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
              <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
              <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
              <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
            <TimeSeries>
              <type>Z01</type>
              <Period>
                <timeInterval>2018-03-02T05:00Z/2018-03-02T06:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <quantity.amount>500</quantity.amount>
                <allocationScheme.code>14G</allocationScheme.code>
                <status.code>03G</status.code>
              </Period>
              <Period>
                <timeInterval>2018-03-02T06:00Z/2018-03-02T07:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <quantity.amount>500</quantity.amount>
                <allocationScheme.code>14G</allocationScheme.code>
                <status.code>03G</status.code>
              </Period>
              <Period>
                <timeInterval>2018-03-02T07:00Z/2018-03-02T08:00Z</timeInterval>

```



```

    <allocationScheme.code>14G</allocationScheme.code>
    <status.code>03G</status.code>
  </Period>
  <Period>
    <timeInterval>2018-03-03T04:00Z/2018-03-03T05:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>760</quantity.amount>
    <allocationScheme.code>14G</allocationScheme.code>
    <status.code>03G</status.code>
  </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</Documents>
</GetAllocationsWithinDayResponse>
</s:Body>
</s:Envelope>

```

4.4.3.3 Xml Example – In the event of error

```

<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/GetAllocationWithinDayResponse</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>2018-05-17T14:43:19.798Z</u:Created>
        <u:Expires>2018-05-17T14:48:19.798Z</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">
    <GetAllocationWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <GetAllocationWithinDayResult>
        <success>false</success>
        <generalErrorCode>SS0002</generalErrorCode>
        <generalErrorText>[SS0002] Shipper code (SHIPPEREICODE) is missing from DB.</generalErrorText>
      </GetAllocationWithinDayResult>
    </GetAllocationWithinDayResponse>
  </s:Body>
</s:Envelope>

```

4.5 QUERY/REQUEST FOR HOURLY ALLOCATIONS (GetAllocationHourly)

4.5.1 Description

Informs the network user about the quantities allocated in the given hour of the gasday, helping to submit more precise nominations in the case of re-nominating. The data service is only available to those eligible network users who are affected and they receive only the data in which they are present/involved as network user.

The service is available at any time, contains the latest updated version of the hourly allocation quantities available up to the very time of the request.

Name of proposed method: **GetAllocationHourly**

4.5.2 Message with request

The request message contains the gasday and gashour, the allocation data of which the network user wants to request.

4.5.2.1 Structure

Name	Description	XML element name	Format / type
Subject gashour	The gashour to which the allocation refers.	hour	xsd:Number
Date of creation	Creation date of message. The new IP does not use the field. creationDate xsd: dateTime	creationDate	xsd:dateTime
Unique identifier of the message	An identifier generated by the sender that identifies exactly one of the messages he has ever sent. The new IP does not use the field	messageID	xsd:Number
Sender ID	The EIC or IP code of the sender or the partner who assigned the actual sender with sending the message. The accepted coding schemes are ZZZ, which means the IP code, or 305, which means EIC code	sender	xsd:String
Subject Gas day	Subject gasday	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)

4.5.2.2 Xml Example

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

```
<soap:Header/>
```

```
<soap:Body>
```

```
<dom:GetAllocationHourlyRequest>
```

```
<dom:hour>11</dom:hour>
```

```
<!--Optional-->
```

```
<dom:messageHeader>
```

```
<dom:creationDate>2018-07-09</dom:creationDate>
```

```
<dom:messageId>001</dom:messageId>
```

```
<!--Optional-->
```

```
<dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
```

```

</dom:messageHeader>
<dom:subjectGasDay>2018-06-28</dom:subjectGasDay>
</dom:GetAllocationHourlyRequest>
</soap:Body>
</soap:Envelope>

```

4.5.3 Message with response

In the response, the allocation lines for the network points used by the network user are contained. The response message contains the allocation lines in the Documents block according to the Edig@ standard.

Policies, specialties, restrictions/constrains:

See chapter **Hiba! A hivatkozási forrás nem található.**

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.

4.5.3.1 Structure

See chapter **Hiba! A hivatkozási forrás nem található.**

4.5.3.2 Xml Example – In the event of success

```

<: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/GetAllocationHourlyResponse</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>2018-07-09T14:51:05.203Z</u:Created>
        <u:Expires>2018-07-09T14:56:05.203Z</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">
    <AllocationHourlyResponse xmlns="http://domain.service.fgsz.hu">
      <Documents>
        <Allocation_Document release="">
          <identification>de1cb832b0704f999412c9cba015cd7c</identification>
          <version>1</version>
          <type>96G</type>
          <creationDateTime>2018-07-09T16:51:05.0627079+02:00</creationDateTime>
          <validityPeriod>2018-06-28T04:00Z/2018-06-28T05:00Z</validityPeriod>
          <contractReference>de1cb832b0704f999412c9cba015cd7c</contractReference>
          <contractType>CT</contractType>
          <issuer_MarketParticipant.identification xsi:type="PartyType"
codingScheme="305">NNOEICCODE</issuer_MarketParticipant.identification>
          <issuer_MarketParticipant.marketRole.code>ZSO</issuer_MarketParticipant.marketRole.code>
          <recipient_MarketParticipant.identification xsi:type="PartyType"
codingScheme="305">SHIPPEREICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code>ZSH</recipient_MarketParticipant.marketRole.code>
          <ConnectionPoint>
            <identification codingScheme="305">39ZKETELJCS07ENP</identification>
            <measureUnit.code>KW2</measureUnit.code>
          <Account>

```

```

<internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
<internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
<externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
<externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
<TimeSeries>
  <type>Z01</type>
  <Period>
    <timeInterval>2018-06-28T04:00Z/2018-06-28T05:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>76407</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
  </Period>
</TimeSeries>
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    <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
    <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
    <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
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      <Period>
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        <direction.code>Z03</direction.code>
        <quantity.amount>36989</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
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    </TimeSeries>
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  <identification codingScheme="305">39ZKEKALOCS11GNQ</identification>
  <measureUnit.code>KW2</measureUnit.code>
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    <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
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    <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
    <TimeSeries>
      <type>Z01</type>
      <Period>
        <timeInterval>2018-06-28T04:00Z/2018-06-28T05:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>60033</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
      </Period>
    </TimeSeries>
  </Account>
</ConnectionPoint>
<ConnectionPoint>
  <identification codingScheme="305">39ZKEBATMON11GNF</identification>
  <measureUnit.code>KW2</measureUnit.code>
  <Account>
    <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
    <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
    <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
    <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
    <TimeSeries>
      <type>Z01</type>
      <Period>
        <timeInterval>2018-06-28T04:00Z/2018-06-28T05:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>19181</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
      </Period>
    </TimeSeries>
  </Account>
</ConnectionPoint>

```

```

        <status.code>03G</status.code>
    </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
<ConnectionPoint>
    <identification codingScheme="305">39ZKAMOSONM11GNU</identification>
    <measureUnit.code>KW2</measureUnit.code>
    <Account>
        <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
        <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
        <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
        <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
    </TimeSeries>
    <type>Z01</type>
    <Period>
        <timeInterval>2018-06-28T04:00Z/2018-06-28T05:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>104749</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
    </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
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    <identification codingScheme="305">39ZKEPUSZTS11GNJ</identification>
    <measureUnit.code>KW2</measureUnit.code>
    <Account>
        <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
        <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
        <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
        <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
    </TimeSeries>
    <type>Z01</type>
    <Period>
        <timeInterval>2018-06-28T04:00Z/2018-06-28T05:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>18271</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
    </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</Documents>
<success>true</success>
</AllocationHourlyResponse>
</s:Body>
</s:Envelope>

```

4.5.3.3 Xml Example – In the event of error

```

<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/GetAllocationHourlyResponse</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>2018-07-09T14:17:26.534Z</u:Created>
                <u:Expires>2018-07-09T14:22:26.534Z</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">
        <AllocationHourlyResponse xmlns="http://domain.service.fgsz.hu">
            <generalErrorCode>SS0002</generalErrorCode>
            <generalErrorText>[SS0002] A rendszerhasználó code () nem található az adatbázisban.</generalErrorText>
            <success>false</success>
        </AllocationHourlyResponse>
    </s:Body>
</s:Envelope>

```



```
</s:Body>  
</s:Envelope>
```

5 Measurement services

5.1 Business environment

The system operation licensee carries out daily operative data supply service that it makes available over the IT platform to those having the access right. The data service regarding the measurement module is used to communicate the measurement results.

In the data service, only those elementary points of the network points are shown for the data users to which they are linked as shipper.

5.2 DAILY MEASUREMENT DATA SERVICE (GetMeasurementDaily)

5.2.1 Description

This data service provides gas quality and gas composition measurement data to network users, typically the latest updated version for the given gasday, completed by the K conversion factors for the given period stored in the system.

Name of proposed method: **GetMeasurementDaily**

5.2.2 Message with request

The request message contains the gasday whose measurement data the system operator wants to query/request.

5.2.2.1 Structure

Name	Description	XML element name	Format / type
Date of creation	Creation date/time of message	creationDate	xsd:dateTime
Unique identifier of the message	An identifier generated by the sender that identifies exactly one of the messages he has ever sent. The new IP does not use the field.	messageID	xsd:Number
Sender ID	The FGSZ IP code of the sender or the partner who assigned the actual sender with sending the message. The only currently accepted "ZZZ" encoding means that it is the partner's IP code.	sender	xsd:String
Subject Gas day	Subject Gas day	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)
Measurement data type	It can be optionally specified, that the query applies to elementary or network points. If the tag is empty then the request applies to elementary points. Value set: NETWORKPOINT;	measurementData type	xsd:String

5.2.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"
xmlns:dom="http://domain.service.fgsz.hu">
  <soapenv:Header/>
  <soapenv:Body>
    <dom:GetMeasurementDailyRequest>
      <dom:messageHeader>
        <dom:creationDate>2018-03-01</dom:creationDate>
        <dom:messageId>001</dom:messageId>
        <dom:sender codingScheme="ZZZ">SHIPPERCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-01</dom:subjectGasDay>
    </dom:GetMeasurementDailyRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

5.2.3 Message with response

In the response, the measurement data regarding those elementary points are contained that belong to the network points used by the Network user as shipper.

Error codes:

Error code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field. The registered/logged-id user partner's code does not match the code in the sender field.
SS0002	The network user code is not found in the database.

5.2.3.1 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
Successfulness	Bit showing the successfulness of processing the originalmessage..	success	xs:boolean
Elementar Point Direction	Its value can be: IN, or OUT;	direction	xsd:String
Point code	Point code (IP system code)	location	
Point Name	Point Name	description	
Connecting System Operator Code	Code (IP systemc code) of the System Operator connecting at the point	operator	

Measurement data	<p>At the point, the quality and quantity measurement data measured on the Subject gasday.</p> <p>The measurement data category is displayed encoded. The measured quantity itself is in the unit of measurement as of the table below.</p>	measuredQuantity	xsd:Number
------------------	---	------------------	------------

Codes for measurement data fields:

Code	Field name, description	XML element name	Format / type
E25	Quantity of energy (25/0°C)	dimension	
E15	Quantity of energy (15/15°C)	dimension	
V15	Volume (15°C)	dimension	
V00	Volume (0°C)	dimension	
DN2	Relative density (0°C)	dimension	
DN1	Relative density (15°C)	dimension	
GCV	Burning heat (25/0°C)	dimension	
GCV	Burning heat (15/15°C)	dimension	
HIB	Izobutan	dimension	
HIP	Izopentan	dimension	
HNP	Neopentan	dimension	
HPN	Normal pentane	dimension	
LCV	Calorific value (25/0°C)	dimension	
LCV	Calorific value (15/15°C)	dimension	
ZN	Nitrogen	dimension	
ZQD	Carbon dioxide	dimension	
ZQF	Propane	dimension	
ZQG	Ethan	dimension	

ZQH	Methane	dimension	
ZQI	Normal butane	dimension	
ZQJ	C6+	dimension	
ZWI	Wobbe-number (25/0°C)	dimension	
ZWI	Wobbe-number (15/15°C)	dimension	
C00	Carbon content (0°C)	dimension	
C15	Carbon content (15°C)	dimension	
KE	KEnergy (kWh --> MJ)	dimension	
KV	KVolume (m3 15°C --> m3 0°C)	dimension	
ZQR	Hydrogen	dimension	

Codes for measurement units of measurement data:

Code	Field name, description	XML element name	Format / type
KWH	kWh	measured unit	
_3B	MJ	measured unit	
MQ5	m3	measured unit	
Z99	no unit of measurement	measured unit	
JM	MJ/m3	measured unit	
MOL	mol%	measured unit	

5.2.3.2 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/GetMeasurementDailyResponse</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>2018-07-06T17:56:53.060Z</u:Created>
        <u:Expires>2018-07-06T18:01:53.060Z</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">
```

```

<GetMeasurementDailyResponse xmlns="http://domain.service.fgsz.hu">
  <GetMeasurementDailyResult>
    <success>true</success>
    <measurementData direction="OUT">
      <HourOfGasDay>0</HourOfGasDay>
      <location codingScheme="ZZZ">KAPAPA0011GN</location>
      <description>Pápa</description>
      <operator codingScheme="ZZZ">NNOCODE</operator>
      <measuredQuantity dimension="DN2" measureUnit="Z99">0.5833</measuredQuantity>
      <measuredQuantity dimension="DN1" measureUnit="Z99">0.5831</measuredQuantity>
      <measuredQuantity dimension="GCV" measureUnit="KW3">11.320568</measuredQuantity>
      <measuredQuantity dimension="GCV" measureUnit="JM">38.655445</measuredQuantity>
      <measuredQuantity dimension="HIB" measureUnit="MOL">0.1007</measuredQuantity>
      <measuredQuantity dimension="HIP" measureUnit="MOL">0.0213</measuredQuantity>
      <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
      <measuredQuantity dimension="HPN" measureUnit="MOL">0.0156</measuredQuantity>
      <measuredQuantity dimension="LCV" measureUnit="KW3">10.213928</measuredQuantity>
      <measuredQuantity dimension="LCV" measureUnit="JM">34.844597</measuredQuantity>
      <measuredQuantity dimension="ZN" measureUnit="MOL">0.7718</measuredQuantity>
      <measuredQuantity dimension="ZQD" measureUnit="MOL">0.3186</measuredQuantity>
      <measuredQuantity dimension="ZQF" measureUnit="MOL">0.6759</measuredQuantity>
      <measuredQuantity dimension="ZQG" measureUnit="MOL">2.291</measuredQuantity>
      <measuredQuantity dimension="ZQH" measureUnit="MOL">95.679</measuredQuantity>
      <measuredQuantity dimension="ZQI" measureUnit="JM">0.1063</measuredQuantity>
      <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0198</measuredQuantity>
      <measuredQuantity dimension="ZWI" measureUnit="KW3">14.8227</measuredQuantity>
      <measuredQuantity dimension="ZWI" measureUnit="JM">50.6209</measuredQuantity>
      <measuredQuantity dimension="C00" measureUnit="MOL">0.5573</measuredQuantity>
      <measuredQuantity dimension="C15" measureUnit="MOL">0.5283</measuredQuantity>
      <measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
      <measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
      <measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
    </measurementData>
    <measurementData direction="OUT">
      <HourOfGasDay>0</HourOfGasDay>
      <location codingScheme="ZZZ">KADUNAUJ15GN</location>
      <description>Dunaújváros 5</description>
      <operator codingScheme="ZZZ">NNOCODE</operator>
      <measuredQuantity dimension="DN2" measureUnit="Z99">0.608</measuredQuantity>
      <measuredQuantity dimension="DN1" measureUnit="Z99">0.6081</measuredQuantity>
      <measuredQuantity dimension="GCV" measureUnit="KW3">11.247372</measuredQuantity>
      <measuredQuantity dimension="GCV" measureUnit="JM">38.382748</measuredQuantity>
      <measuredQuantity dimension="HIB" measureUnit="MOL">0.1576</measuredQuantity>
      <measuredQuantity dimension="HIP" measureUnit="MOL">0.0487</measuredQuantity>
      <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
      <measuredQuantity dimension="HPN" measureUnit="MOL">0.0402</measuredQuantity>
      <measuredQuantity dimension="LCV" measureUnit="KW3">10.143775</measuredQuantity>
      <measuredQuantity dimension="LCV" measureUnit="JM">34.616619</measuredQuantity>
      <measuredQuantity dimension="ZN" measureUnit="MOL">1.6774</measuredQuantity>
      <measuredQuantity dimension="ZQD" measureUnit="MOL">1.5569</measuredQuantity>
      <measuredQuantity dimension="ZQF" measureUnit="MOL">0.8698</measuredQuantity>
      <measuredQuantity dimension="ZQG" measureUnit="MOL">2.8913</measuredQuantity>
      <measuredQuantity dimension="ZQH" measureUnit="MOL">92.5072</measuredQuantity>
      <measuredQuantity dimension="ZQI" measureUnit="JM">0.1746</measuredQuantity>
      <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0764</measuredQuantity>
      <measuredQuantity dimension="ZWI" measureUnit="KW3">14.4245</measuredQuantity>
      <measuredQuantity dimension="ZWI" measureUnit="JM">49.2207</measuredQuantity>
      <measuredQuantity dimension="C00" measureUnit="MOL">0.5626</measuredQuantity>
      <measuredQuantity dimension="C15" measureUnit="MOL">0.5333</measuredQuantity>
      <measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
      <measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
      <measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
    </measurementData>
    <measurementData direction="OUT">
      <HourOfGasDay>0</HourOfGasDay>
      <location codingScheme="ZZZ">KADUNAUJ13GN</location>
      <description>Dunaújváros 3</description>
      <operator codingScheme="ZZZ">NNOCODE</operator>
      <measuredQuantity dimension="DN2" measureUnit="Z99">0.608</measuredQuantity>
      <measuredQuantity dimension="DN1" measureUnit="Z99">0.6081</measuredQuantity>
      <measuredQuantity dimension="GCV" measureUnit="KW3">11.247372</measuredQuantity>

```

```

<measuredQuantity dimension="GCV" measureUnit="JM">38.382748</measuredQuantity>
<measuredQuantity dimension="HIB" measureUnit="MOL">0.1576</measuredQuantity>
<measuredQuantity dimension="HIP" measureUnit="MOL">0.0487</measuredQuantity>
<measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
<measuredQuantity dimension="HPN" measureUnit="MOL">0.0402</measuredQuantity>
<measuredQuantity dimension="LCV" measureUnit="KW3">10.143775</measuredQuantity>
<measuredQuantity dimension="LCV" measureUnit="JM">34.616619</measuredQuantity>
<measuredQuantity dimension="ZN" measureUnit="MOL">1.6774</measuredQuantity>
<measuredQuantity dimension="ZQD" measureUnit="MOL">1.5569</measuredQuantity>
<measuredQuantity dimension="ZQF" measureUnit="MOL">0.8698</measuredQuantity>
<measuredQuantity dimension="ZQG" measureUnit="MOL">2.8913</measuredQuantity>
<measuredQuantity dimension="ZQH" measureUnit="MOL">92.5072</measuredQuantity>
<measuredQuantity dimension="ZQI" measureUnit="JM">0.1746</measuredQuantity>
<measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0764</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="KW3">14.4245</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="JM">49.2207</measuredQuantity>
<measuredQuantity dimension="C00" measureUnit="MOL">0.5626</measuredQuantity>
<measuredQuantity dimension="C15" measureUnit="MOL">0.5333</measuredQuantity>
<measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
<measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
<measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
</measurementData>
<measurementData direction="OUT">
  <HourOfGasDay>0</HourOfGasDay>
  <location codingScheme="ZZZ">KAMOSONM11GN</location>
  <description>Mosonmagyaróvár</description>
  <operator codingScheme="ZZZ">NNOCODE</operator>
  <measuredQuantity dimension="DN2" measureUnit="Z99">0.5834</measuredQuantity>
  <measuredQuantity dimension="DN1" measureUnit="Z99">0.5832</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="KW3">11.318013</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="JM">38.646729</measuredQuantity>
  <measuredQuantity dimension="HIB" measureUnit="MOL">0.1012</measuredQuantity>
  <measuredQuantity dimension="HIP" measureUnit="MOL">0.0208</measuredQuantity>
  <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
  <measuredQuantity dimension="HPN" measureUnit="MOL">0.0151</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="KW3">10.211637</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="JM">34.836777</measuredQuantity>
  <measuredQuantity dimension="ZN" measureUnit="MOL">0.7967</measuredQuantity>
  <measuredQuantity dimension="ZQD" measureUnit="MOL">0.3191</measuredQuantity>
  <measuredQuantity dimension="ZQF" measureUnit="MOL">0.6774</measuredQuantity>
  <measuredQuantity dimension="ZQG" measureUnit="MOL">2.2952</measuredQuantity>
  <measuredQuantity dimension="ZQH" measureUnit="MOL">95.6489</measuredQuantity>
  <measuredQuantity dimension="ZQI" measureUnit="JM">0.1059</measuredQuantity>
  <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0197</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="KW3">14.8178</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="JM">50.6042</measuredQuantity>
  <measuredQuantity dimension="C00" measureUnit="MOL">0.5572</measuredQuantity>
  <measuredQuantity dimension="C15" measureUnit="MOL">0.5282</measuredQuantity>
  <measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
  <measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
  <measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
</measurementData>
<measurementData direction="OUT">
  <HourOfGasDay>0</HourOfGasDay>
  <location codingScheme="ZZZ">KADHE0001VEN</location>
  <description>Százhalombatta I-5-2 (DHE)</description>
  <operator codingScheme="ZZZ">NNOCODE</operator>
  <measuredQuantity dimension="DN2" measureUnit="Z99">0.6082</measuredQuantity>
  <measuredQuantity dimension="DN1" measureUnit="Z99">0.608</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="KW3">11.237623</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="JM">38.371174</measuredQuantity>
  <measuredQuantity dimension="HIB" measureUnit="MOL">0.1572</measuredQuantity>
  <measuredQuantity dimension="HIP" measureUnit="MOL">0.0483</measuredQuantity>
  <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
  <measuredQuantity dimension="HPN" measureUnit="MOL">0.0394</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="KW3">10.144202</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="JM">34.605934</measuredQuantity>
  <measuredQuantity dimension="ZN" measureUnit="MOL">1.6845</measuredQuantity>
  <measuredQuantity dimension="ZQD" measureUnit="MOL">1.5591</measuredQuantity>
  <measuredQuantity dimension="ZQF" measureUnit="MOL">0.864</measuredQuantity>
  <measuredQuantity dimension="ZQG" measureUnit="MOL">2.8841</measuredQuantity>

```

```

<measuredQuantity dimension="ZQH" measureUnit="MOL">92.5135</measuredQuantity>
<measuredQuantity dimension="ZQI" measureUnit="JM">0.1739</measuredQuantity>
<measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0761</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="KW3">14.4097</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="JM">49.2095</measuredQuantity>
<measuredQuantity dimension="C00" measureUnit="MOL">0.5624</measuredQuantity>
<measuredQuantity dimension="C15" measureUnit="MOL">0.5331</measuredQuantity>
<measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
<measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
<measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
</measurementData>
<measurementData direction="OUT">
  <HourOfGasDay>0</HourOfGasDay>
  <location codingScheme="ZZZ">KAPETFUR11GN</location>
  <description>Pétfürdő 1</description>
  <operator codingScheme="ZZZ">NNOCODE</operator>
  <measuredQuantity dimension="DN2" measureUnit="Z99">0.6023</measuredQuantity>
  <measuredQuantity dimension="DN1" measureUnit="Z99">0.6021</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="KW3">11.271728</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="JM">38.487846</measuredQuantity>
  <measuredQuantity dimension="HIB" measureUnit="MOL">0.1442</measuredQuantity>
  <measuredQuantity dimension="HIP" measureUnit="MOL">0.0423</measuredQuantity>
  <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
  <measuredQuantity dimension="HPN" measureUnit="MOL">0.035</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="KW3">10.173981</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="JM">34.707691</measuredQuantity>
  <measuredQuantity dimension="ZN" measureUnit="MOL">1.4346</measuredQuantity>
  <measuredQuantity dimension="ZQD" measureUnit="MOL">1.233</measuredQuantity>
  <measuredQuantity dimension="ZQF" measureUnit="MOL">0.8211</measuredQuantity>
  <measuredQuantity dimension="ZQG" measureUnit="MOL">2.7995</measuredQuantity>
  <measuredQuantity dimension="ZQH" measureUnit="MOL">93.2662</measuredQuantity>
  <measuredQuantity dimension="ZQI" measureUnit="JM">0.1583</measuredQuantity>
  <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0659</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="KW3">14.5244</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="JM">49.6015</measuredQuantity>
  <measuredQuantity dimension="C00" measureUnit="MOL">0.5619</measuredQuantity>
  <measuredQuantity dimension="C15" measureUnit="MOL">0.5326</measuredQuantity>
  <measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
  <measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
  <measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
</measurementData>
<measurementData direction="OUT">
  <HourOfGasDay>0</HourOfGasDay>
  <location codingScheme="ZZZ">KADUNAUJ12GN</location>
  <description>Dunaújváros 2</description>
  <operator codingScheme="ZZZ">NNOCODE</operator>
  <measuredQuantity dimension="DN2" measureUnit="Z99">0.608</measuredQuantity>
  <measuredQuantity dimension="DN1" measureUnit="Z99">0.6081</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="KW3">11.247372</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="JM">38.382748</measuredQuantity>
  <measuredQuantity dimension="HIB" measureUnit="MOL">0.1576</measuredQuantity>
  <measuredQuantity dimension="HIP" measureUnit="MOL">0.0487</measuredQuantity>
  <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
  <measuredQuantity dimension="HPN" measureUnit="MOL">0.0402</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="KW3">10.143775</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="JM">34.616619</measuredQuantity>
  <measuredQuantity dimension="ZN" measureUnit="MOL">1.6774</measuredQuantity>
  <measuredQuantity dimension="ZQD" measureUnit="MOL">1.5569</measuredQuantity>
  <measuredQuantity dimension="ZQF" measureUnit="MOL">0.8698</measuredQuantity>
  <measuredQuantity dimension="ZQG" measureUnit="MOL">2.8913</measuredQuantity>
  <measuredQuantity dimension="ZQH" measureUnit="MOL">92.5072</measuredQuantity>
  <measuredQuantity dimension="ZQI" measureUnit="JM">0.1746</measuredQuantity>
  <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0764</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="KW3">14.4245</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="JM">49.2207</measuredQuantity>
  <measuredQuantity dimension="C00" measureUnit="MOL">0.5626</measuredQuantity>
  <measuredQuantity dimension="C15" measureUnit="MOL">0.5333</measuredQuantity>
  <measuredQuantity dimension="KE" measureUnit="Z99">3.2491</measuredQuantity>
  <measuredQuantity dimension="KV" measureUnit="Z99">0.947521</measuredQuantity>
  <measuredQuantity dimension="ZQR" measureUnit="MOL">0.1122</measuredQuantity>
</measurementData>

```



```

    <subjectGasDay>2018-06-23</subjectGasDay>
  </GetMeasurementDailyResult>
</GetMeasurementDailyResponse>
</s:Body>
</s:Envelope>

```

5.2.3.3 Xml Example – In the event of error

```

<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/GetMeasurementDailyResponse</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>2018-07-09T16:31:53.166Z</u:Created>
        <u:Expires>2018-07-09T16:36:53.166Z</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">
    <GetMeasurementDailyResponse xmlns="http://domain.service.fgsz.hu">
      <GetMeasurementDailyResult>
        <success>false</success>
        <generalErrorText>[SS0002] A rendszerhasználó code (HUIE) nem található az adatbázisban.</generalErrorText>
        <generalErrorCode_x0020_>SS0002</generalErrorCode_x0020_>
      </GetMeasurementDailyResult>
    </GetMeasurementDailyResponse>
  </s:Body>
</s:Envelope>

```