

IP New – Interface for connecting/related system operators

v1.5

0 Version control

Date	Author	Version	Change
2020.02.18.	Lajtos András	1.1	Master copy created
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
2021.01.18.	Magdus Adrienn	1.4	Refineing saveDeliveryOrder method with the restriction of direction code
2021.05.18	Magdus Adrienn	1.5	GetMeasurement modification

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II. General Part

This document covers the collection of public webservice methods of the IP New system that can be used by related system operators (NNOs). The service implements both individual messaging methods and also such that are conform with the official European Standard Recommendation. Pre-studying the standard can make the use of the service more effective. The official version of this is version 5.1, to which all documentation is available on the following page: <https://www.edigas.org/version-5/>

Service name: **SoapFGSZNNOService**.

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

The service is available under the following URLs:

<https://<servername>/Fgsz.Ip.Web/Services/SoapFGSZNNOService.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 "?singleWsdll" parameter inserted after the URL, for example:

[https:// <servername>/Fgsz.Ip.Web/Services/SoapFGSZNNOService.svc?singleWsdll](https://<servername>/Fgsz.Ip.Web/Services/SoapFGSZNNOService.svc?singleWsdll)

III. 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."

III.1 Message with request

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

III.1.1 Structure

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

III.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>

```

III.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.

III.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

III.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/IFGSZNNOSoapWrapper/CheckAliveResponse</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>

```

III.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>

```

IV. Nomination Services

IV.1 Business Business environment

In order to produce the correct matching data, the system operators provide the nomination data that the system users present on their system have nominated and based on the data the IP system can perform the nomination matching process.

The matching nomination data generated by the IP system is provided by the FGSZ to the system operators.

IV.2 SENDING IN/SUBMITTING MATCHING DATA (SaveDeliveryOrder)

IV.2.1 Description

The IP system allows NNOs **to submit two sub-types** (Callup notice, Forward single sided nomination) of the **standard DELORD document** over web service for a given gas day.

Name of proposed method: **SaveDeliveryOrder**

IV.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. XX

The transmission of the data is broken down by network points, including the shipper-to-shipper-pairs breakdown per hour.

The basic structure of Nomination_Document is setup as follows: XX

- ConnectionPoint (repetitive block)
 - Account (repetitive block)
 - informationOrigin_TimeSeries (repetitive block)
 - type
 - 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 data of the DELORD 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.

Submitting different directions in the same Account can be only if the relating Periods 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. órára 2018-11-01T05:00Z/2018-11-01T06:00Z
2. órára 2018-11-01T06:00Z/2018-11-01T07:00Z
-
20. órára 2018-11-02T00:00Z/2018-11-02T01:00Z
21. órára 2018-11-02T01:00Z/2018-11-02T02:00Z
22. órára 2018-11-02T02:00Z/2018-11-02T03:00Z
23. órára 2018-11-02T03:00Z/2018-11-02T04:00Z
24. órára 2018-11-02T04:00Z/2018-11-02T05:00Z

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

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

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

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

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

1. órára 2018-03-24T05:00Z/2018-03-24T06:00Z
2. órára 2018-03-24T06:00Z/2018-03-24T07:00Z
-
20. órára 2018-03-25T00:00Z/2018-03-25T01:00Z

21. órára 2018-03-25T01:00Z/2018-03-25T02:00Z
22. órára 2018-03-25T02:00Z/2018-03-25T03:00Z
23. órára 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: 26G – in the case of Callup notice or for ANC - Forwarded single sided nomination
- IssuerMarketParticipantMarketRoleCode: always „ZSO”.
- RecipientMarketParticipantMarketRoleCode: always „ZSO”.
- codingScheme= for "305" it must be filled with EIC code
- codingScheme= for "ZSO" it must be filled with internal code
- InformationOrigin_TimeSeries Type: always 14G
- 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

IV.2.2.1 Structure

Structure of the SaveDeliveryOrder block:

Name	Description	XML element name	Format / type
Request:	Element containing the Delord document.	request	
Delord	Edig@s specification: https://www.edigas.org/wp-content/Downloads/nominationAndMatchingv51r3.pdf (3.5 Contextual model for Delivery Order Document (DELORD))	DeliveryOrder_Document	

IV.2.2.2 Xml Example 1

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope" >
  <soapenv:Header/>
  <soapenv:Body>
    <SaveDeliveryOrderRequest xmlns="http://domain.service.fgsz.hu">
<Request>
  <DeliveryOrder_Document release="1">
<xmlns="urn:easeegas.eu:edigas:nominationandmatching:deliveryorderdocument:5:1">
  <identification> 20180218_TRANSG_1_205005</identification>
  <version> 3</version>
  <type> 26G</type>
  <creationDateTime> 2018-01-17T20:50:05.7930887+01:00</creationDateTime>
  <validityPeriod> 2018-02-18T05:00Z/2018-02-19T05:00Z</validityPeriod>
  <issuer_MarketParticipant.identification codingScheme="305">
NNOEICCODE</issuer_MarketParticipant.identification>
  <issuer_MarketParticipant.marketRole.code> ZSO</issuer_MarketParticipant.marketRole.code>
  <recipient_MarketParticipant.identification codingScheme="305">
FGSZEICCODE</recipient_MarketParticipant.identification>
  <recipient_MarketParticipant.marketRole.code> ZSO</recipient_MarketParticipant.marketRole.code>
```

```

<ConnectionPoint>
  <identification codingScheme="305">21Z00000000236Q</identification>
  <measureUnit.code>KWL</measureUnit.code>
  <Account>
    <internalAccount codingScheme="305">PARTNER1EIC</internalAccount>
    <externalAccount codingScheme="305">PARTER2EIC</externalAccount>
    <InformationOrigin_TimeSeries>
      <type>14G</type>
      <Period>
        <timeInterval>2018-02-18T05:00Z/2018-02-18T06:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T06:00Z/2018-02-18T07:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T07:00Z/2018-02-18T08:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T08:00Z/2018-02-18T09:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T09:00Z/2018-02-18T10:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T10:00Z/2018-02-18T11:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T11:00Z/2018-02-18T12:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T12:00Z/2018-02-18T01:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T01:00Z/2018-02-18T02:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T02:00Z/2018-02-18T03:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T03:00Z/2018-02-18T04:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T04:00Z/2018-02-18T05:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T05:00Z/2018-02-18T06:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>
      <Period>
        <timeInterval>2018-02-18T06:00Z/2018-02-18T07:00Z</timeInterval>
        <direction.code>Z02</direction.code>
        <total_Quantity.amount>0</total_Quantity.amount>
      </Period>

```

```

    </Period>
  <Period>
    <timeInterval>2018-02-18T07:00Z/2018-02-18T08:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-18T08:00Z/2018-02-18T09:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-18T09:00Z/2018-02-18T10:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-18T10:00Z/2018-02-18T11:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-18T11:00Z/2018-02-19T12:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-19T12:00Z/2018-02-19T01:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-19T01:00Z/2018-02-19T02:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-19T02:00Z/2018-02-19T03:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-19T03:00Z/2018-02-19T04:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-02-19T04:00Z/2018-02-19T05:00Z</timeInterval>
    <direction.code>Z02</direction.code>
    <total_Quantity.amount>0</total_Quantity.amount>
  </Period>
</InformationOrigin_TimeSeries>
</Account>
</ConnectionPoint>
</DeliveryOrder_Document>
</Request>
</SaveDeliveryOrderRequest>
</soapenv:Body>
</soapenv:Envelope>

```

IV.2.2.3 Xml Example 2

```

<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope" >
  <soapenv:Header/>
  <soapenv:Body>
    <SaveDeliveryOrderRequest xmlns="http://domain.service.fgsz.hu">
<Request>
  <DeliveryOrder_Document release="1">
<xmlns="urn:easeegas.eu:edigas:nominationandmatching:deliveryorderdocument:5:1">
  <identification> 20180218_TRANSG_1_205005</identification>
  <version> 3</version>
  <type> 26G</type>
  <creationDateTime> 2018-01-17T20:50:05.7930887+01:00</creationDateTime>
  <validityPeriod> 2018-02-18T05:00Z/2018-02-19T05:00Z</validityPeriod>

```

```

    <issuer_MarketParticipant.identification codingScheme="305">
NNOEICCODE</issuer_MarketParticipant.identification>
    <issuer_MarketParticipant.marketRole.code> ZSO</issuer_MarketParticipant.marketRole.code>
    <recipient_MarketParticipant.identification codingScheme="305">
FGSZEICCODE</recipient_MarketParticipant.identification>
    <recipient_MarketParticipant.marketRole.code> ZSO</recipient_MarketParticipant.marketRole.code>
    <ConnectionPoint>
        <identification codingScheme="305">21Z00000000236Q</identification>
        <measureUnit.code>KW1</measureUnit.code>
        <Account>
            <internalAccount codingScheme="305">PARTNER1EIC</internalAccount>
            <externalAccount codingScheme="305">PARTER2EIC</externalAccount>
            <InformationOrigin_TimeSeries>
                <type>14G</type>
                <Period>
                    <timeInterval>2018-02-18T05:00Z/2018-02-19T05:00Z</timeInterval>
                    <direction.code>Z02</direction.code>
                    <total_Quantity.amount>0</total_Quantity.amount>
                </Period>
                <Period>
                    <timeInterval>2018-02-18T05:00Z/2018-02-19T01:00Z</timeInterval>
                    <direction.code>Z03</direction.code>
                    <total_Quantity.amount>0</total_Quantity.amount>
                </Period>
                <Period>
                    <timeInterval>2018-02-19T01:00Z/2018-02-19T05:00Z</timeInterval>
                    <direction.code>Z03</direction.code>
                    <total_Quantity.amount>0</total_Quantity.amount>
                </Period>
            </InformationOrigin_TimeSeries>
        </Account>
    </ConnectionPoint>
</DeliveryOrder_Document>
</Request>
</SaveDeliveryOrderRequest>
</soapenv:Body>
</soapenv:Envelope>

```

IV.2.2.4 Xml Example 3

```

<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope" >
    <soapenv:Header/>
    <soapenv:Body>
        <SaveDeliveryOrderRequest xmlns="http://domain.service.fgsz.hu">
<Request>
            <DeliveryOrder_Document release="1">
<xmlns="urn:easeegas.eu:edigas:nominationandmatching:deliveryorderdocument:5:1">
                <identification> 20180218_TRANSG_1_205005</identification>
                <version> 3</version>
                <type> 26G</type>
                <creationDateTime> 2018-01-17T20:50:05.7930887+01:00</creationDateTime>
                <validityPeriod> 2018-02-18T05:00Z/2018-02-19T05:00Z</validityPeriod>
                <issuer_MarketParticipant.identification codingScheme="305">
NNOEICCODE</issuer_MarketParticipant.identification>
                <issuer_MarketParticipant.marketRole.code> ZSO</issuer_MarketParticipant.marketRole.code>
                <recipient_MarketParticipant.identification codingScheme="305">
FGSZEICCODE</recipient_MarketParticipant.identification>
                <recipient_MarketParticipant.marketRole.code> ZSO</recipient_MarketParticipant.marketRole.code>
                <ConnectionPoint>
                    <identification codingScheme="305">21Z00000000236Q</identification>
                    <measureUnit.code>KW1</measureUnit.code>
                    <Account>
                        <internalAccount codingScheme="305">PARTNER1EIC</internalAccount>
                        <externalAccount codingScheme="305">PARTER2EIC</externalAccount>
                        <InformationOrigin_TimeSeries>
                            <type>14G</type>
                            <Period>
                                <timeInterval>2018-02-18T05:00Z/2018-02-19T05:00Z</timeInterval>
                                <direction.code>Z02</direction.code>
                                <total_Quantity.amount>0</total_Quantity.amount>
                            </Period>
                        </InformationOrigin_TimeSeries>
                        <InformationOrigin_TimeSeries>
                            <type>14G</type>

```

```

    <Period>
      <timeInterval>2018-02-18T05:00Z/2018-02-19T05:00Z</timeInterval>
      <direction.code>Z03</direction.code>
      <total_Quantity.amount>0</total_Quantity.amount>
    </Period>
  </InformationOrigin_TimeSeries>

</Account>
</ConnectionPoint>
</DeliveryOrder_Document>
</Request>
</SaveDeliveryOrderRequest>
</soapenv:Body>
</soapenv:Envelope>

```

IV.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.

Fault 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 entered.
IN0005	Only one nomination line can be specified per network point, direction, and per RH partner.
IN0008	The nomination quantity sign must be positive!
IN0012	The shipper is inactive and 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.
IN0019	The number of gashours differs on the gasday.
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
IN0058	The network user of the portfolio must be the same as the sender.
IN0049	There is no data for GasHour
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.
SS0003	The network user code is not found in the database.
E0048	Scheme validation warning! Wrong namespace.
E0035	Scheme validation warning!

IV.2.3.1 Structure

Name	Description	XML element name	Format / type
Fault code	Error message code in the event of error.	generalErrorCode	xsd:String
Error message	Error message in the event of error.	generalErrorText	xsd:String
Success	In the event of success true, otherwise false.	success	xsd:String

IV.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">
    <SaveDeliveryOrderResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <success>true</success>
    </SaveDeliveryOrderResponse>
  </s:Body>
</s:Envelope>
```

IV.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/IFGSZNNOSoapWrapper/SaveDeliveryOrderResponse </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">
  <SaveDeliveryOrderResponse xmlns="http://domain.service.fgsz.hu">
    <success>false</success>
    <generalErrorCode>SS0003</generalErrorCode>
    <generalErrorText>[SS0003] The system operator code is not found in the database.</generalErrorText>
  </ SaveDeliveryOrderResponse >
</s:Body>
</s:Envelope>

```

IV.3 QUERY OF MATCHING RESULT (GetDeliveryResponse)

IV.3.1 Description

The IP system allows NNOs to **query DELRES (Callup Response) documents** over webservice for a given gas day.

Name of proposed method: **GetDeliveryResponse**

IV.3.2 Message with request

The request can be entered in a GetDeliveryResponse block. For a given gas day, the matching data produced by IP can be queried by specifying the version number and document ID. If there is no version number or document ID, then the recent version is retrieved.

IV.3.2.1 Structure

Name	Description	XML element name	Format / type
Subject Gas day	Reference gas date of the queried document.	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)
Document identifier	Identifier of the queried document.	matching_Document.id entification	xsd:String
Document version	Version number of the queried document.	matching_Document.v ersion	xsd:Number

IV.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:GetDeliveryResponseRequest>
      <dom:subjectGasDay>2018-02-17</dom:subjectGasDay>
      <dom:matching_Document.identification>NNOCODE20180223
</dom:matching_Document.identification>
      <dom:matching_Document.version>1</dom:matching_Document.version>
    </dom:GetDeliveryResponseRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

IV.3.3 Message with response

The response is received in a GetDeliveryResponseResponse block containing a standard Edig@s DeliveryOrderResponseDocument block of version 5.1.

The transmission of the data is broken down by network points, including the shipper-to-shipper pairs breakdown per hour.

The basic structure of the DeliveryResponse_Document is setup as follows:

- ConnectionPoint (repetitive block)
 - Account (repetitive block)
 - informationOrigin_TimeSeries
 - type
 - Period (repetitive block)

Policies, specialties, restrictions/constrains:

- Version: specifies the version number of the document.
- Type: always 27G
- IssuerMarketParticipantMarketRoleCode: always „ZSO”.
- RecipientMarketParticipantMarketRoleCode: always „ZSO”.
- codingScheme= for "305" it must be filled with EIC code, depending on the NNO’s communicating code
-
- codingScheme= for "ZSO" it must be filled with internal code, depending on the NNO’s communicating code
- InformationOrigin_TimeSeries Type: always 16G
- measureUnit.code: always KW1

Error codes:

Fault code	Error message
SS0001	The registered/logged-in user partner’s code does not match the code in the sender field.
SS0003	The network user code is not found in the database.
IN0040	The document you are looking for is not found.

IV.3.3.1 Structure

Name	Description	XML element name	Format / type
Success	In the event of success true, otherwise false.	succes	xsd:String
Error message	Error message in the event of error.	generalErrorCode	xsd:String

Fault code	Error message code in the event of error.	generalErrorText	xsd:String
Delivery response documents	List Element that contains the resulting delivery order documents.	Documents	
Delres	Edig@s specification: https://www.edigas.org/wp-content/Downloads/nominationAndMatcingv51r3.pdf (3.6 Contextual model for Delivery Response Document (DELRES))	DeliveryResponse_Document	

IV.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">
    <GetDeliveryResponseResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <DeliveryResponse_Document xmlns="
urn:easeegas.eu:edigas:nominationandmatching:deliveryresponsedocument:5:1">
        <identification >20180308_HULDDG_1_130042</identification>
        <version >1</version>
        <type >27G</type>
        <creationDateTime >2018-03-07T13:00:42.9546292+01:00</creationDateTime>
        <validityPeriod >2018-03-08T05:00Z/2018-03-09T05:00Z</validityPeriod>
        <issuer_MarketParticipant.identification codingScheme="305" > NNOEICCODE
</issuer_MarketParticipant.identification>
        <issuer_MarketParticipant.marketRole.code
>ZSO</issuer_MarketParticipant.marketRole.code>
        <recipient_MarketParticipant.identification codingScheme="305" >
FGSZEICCODE</recipient_MarketParticipant.identification>
        <recipient_MarketParticipant.marketRole.code
>ZSO</recipient_MarketParticipant.marketRole.code>
        <ConnectionPoint >
          <identification codingScheme="305">PONTEICCODE</identification>
          <measureUnit.code>KW1</measureUnit.code>
          <Account>
            <internalAccount codingScheme="305">PARTNER1EICCODE</internalAccount>
            <externalAccount codingScheme="305">PARTNER2EICCODE</externalAccount>
            <InformationOrigin_TimeSeries>
              <type>16G</type>
              <Period>
                <timeInterval>2018-03-08T05:00Z/2018-03-08T06:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <total_Quantity.amount>50000</total_Quantity.amount>
              </Period>
              <Period>
                <timeInterval>2018-03-08T06:00Z/2018-03-08T07:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <total_Quantity.amount>50000</total_Quantity.amount>
              </Period>
              <Period>
                <timeInterval>2018-03-08T07:00Z/2018-03-08T08:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <total_Quantity.amount>50000</total_Quantity.amount>
              </Period>
              <Period>
                <timeInterval>2018-03-08T08:00Z/2018-03-08T09:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <total_Quantity.amount>50000</total_Quantity.amount>
              </Period>
              <Period>
                <timeInterval>2018-03-08T09:00Z/2018-03-08T10:00Z</timeInterval>
                <direction.code>Z03</direction.code>
                <total_Quantity.amount>50000</total_Quantity.amount>
              </Period>
            </InformationOrigin_TimeSeries>
          </Account>
        </ConnectionPoint >
      </DeliveryResponse_Document>
    </GetDeliveryResponseResponse>
  </s:Body>
</s:Envelope>

```



```

        <total_Quantity.amount>50000</total_Quantity.amount>
      </Period>
    <Period>
      <timeInterval>2018-03-09T02:00Z/2018-03-09T03:00Z</timeInterval>
      <direction.code>Z03</direction.code>
      <total_Quantity.amount>50000</total_Quantity.amount>
    </Period>
  </Period>
    <timeInterval>2018-03-09T03:00Z/2018-03-09T04:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <total_Quantity.amount>50000</total_Quantity.amount>
  </Period>
  <Period>
    <timeInterval>2018-03-09T04:00Z/2018-03-09T05:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <total_Quantity.amount>50000</total_Quantity.amount>
  </Period>
</InformationOrigin_TimeSeries>
</Account>
</ConnectionPoint>
</DeliveryResponse Document>
</GetDeliveryResponseResult>
</GetDeliveryResponseResponse>
</s:Body>
</s:Envelope>

```

IV.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/IFGSZNNOSoapWrapper/GetDeliveryResponse </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">
    < GetDeliveryResponseResponse xmlns="http://domain.service.fgsz.hu">
      <success>>false</success>
      <generalErrorCode>SS0003</generalErrorCode>
      <generalErrorText >[SS0003] The system operator code is not found in the database.</generalErrorText>
    </GetDeliveryResponseResponse>
  </s:Body>
</s:Envelope>

```

V. Allocation services

V.1 Business environment

The system operation licensee performs a daily operative data service that it makes available over the IT platform to those having the access right. The dataservice regarding the allocation module is used to communicate the result of the allocation. For system operators in the case of data service only those network points are displayed that provide the connection of their network to the natural gas transport/transmission system.

V.2 QUERY DAILY FINAL ALLOCATIONS (GetAllocationDailyFinal)

V.2.1 Description

This data service is used to report the Daily type, "final" status result of the allocation, (final allocation data) 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 proposed method: **GetAllocationDailyFinal**

V.2.2 Message with request

The request message contains the gasday the allocation data of which the system operator wants to query/request.

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.

V.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 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 Gas day	subjectGasDay	xsd:date (ÉÉÉÉ-HH-NN)
-----------------	-----------------	---------------	-----------------------

V.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>005</dom:messageId>
        <dom:sender codingScheme="ZZZ">NNOCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-01</dom:subjectGasDay>
    </dom:GetAllocationDailyFinalRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

V.2.3 Message with response

In the response, the allocation lines per nomination lines for the network points operated by the NNO are contained. In the response the OBA item lines are listed, as well.

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

Policies, specialties, restrictions/constraints:

In the Documents block of the response there is one Allocation_Document and it includes as many pieces of connectionPoint blocks as many allocation lines are there.

- Version: currently it is always 1.
- Type: always 96G.
- ContractReference: always the Identification Code.
- IssuerMarketParticipantMarketRoleCode: always „ZSO”.
- RecipientMarketParticipantMarketRoleCode: for NNO always „ZSO”.
- RecipientMarketParticipantIdentification: For network users the network user's EIC code;
- ConnectionPointIdentification: EIC code, „305” code scheme.
- codingScheme= for "305" it must be filled with EIC code, depending on the NNO's communicating code
- codingScheme= for "ZSO" it must be filled with internal code, depending on the NNO's communicating code
- AllocationSchemeCode:
 - allocation line and the pro-rate that came from the nomination have been calculated, its code is also 04G (no 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;

Error codes:

Fault code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.2.3.1 Structure

Name	Description	XML element name	Format / type
Fault code	Error message code in the event of error.	generalErrorCode	xsd:String
Error message	Error message in the event of error.	generalErrorText	xsd:String
Success	In the event of success: true. In the event of non-success: false.	success	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	

V.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 release="" xmlns="urn:easee-
gas.eu:edigas:settlement:allocationdocument:5:1:3">
          <identification >e4d4ad9300ad49b6b80e230445596bf6</identification>
          <version >1</version>
          <type >96G</type>
          <creationDateTime >2018-03-06T15:44:18.4882243+01:00</creationDateTime>
          <validityPeriod >2018-03-06T15:14Z/2018-03-06T16:14Z</validityPeriod>
          <contractReference > e4d4ad9300ad49b6b80e230445596bf6</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"
>FGSZEICCODE</recipient_MarketParticipant.identification>
```

```

    <recipient_MarketParticipant.marketRole.code
>ZSO</recipient_MarketParticipant.marketRole.code>
    <ConnectionPoint >
      <identification codingScheme="305">39ZKAAJKA0011GNN</identification>
      <measureUnit.code>KW1</measureUnit.code>
      <Account>
        <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
        <internalAccountTso codingScheme="305">FGSZEICCODE</internalAccountTso>
        <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
        <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
      <TimeSeries>
        <type>Z01</type>
        <Period>
          <timeInterval>2018-03-01T05:00Z/2018-03-02T05:00Z</timeInterval>
          <direction.code>Z03</direction.code>
          <quantity.amount>1967398</quantity.amount>
          <allocationScheme.code>04G</allocationScheme.code>
          <status.code>03G</status.code>
        </Period>
      </TimeSeries>
    </Account>
  </ConnectionPoint>
</Allocation_Document>
  <Documents>
    </GetAllocationDailyFinalResponse>
  </s:Body>
</s:Envelope>

```

V.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">
      <GetAllocationDailyFinalResult>
        <success>false</success>
        <generalErrorCode>SS0002</generalErrorCode>
        <generalErrorText>[SS0002] Shipper code (SHIPPEREICCODE) is missing from DB.</generalErrorText>
      </GetAllocationDailyFinalResult>
    </GetAllocationDailyFinalResponse>
  </s:Body>
</s:Envelope>

```

V.3 QUERY DAILY ACTUAL ALLOCATIONS (GetAllocationDailyActual)

V.3.1 Description

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

Name of proposed method: **GetAllocationDailyActual**

V.3.2 Message with request

The request message contains the gasday the allocation data of which the system operator wants to query/request.

V.3.2.1 Structure

See chapter V.2.2.1.

V.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:messageHeader>
        <dom:creationDate>2018-03-01</dom:creationDate>
        <dom:messageId>002</dom:messageId>
        <dom:sender codingScheme="ZZZ">NNOCCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-01</dom:subjectGasDay>
    </dom:GetAllocationDailyActualRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

V.3.3 Message with response

In the response, the allocation lines per network user regarding the network points operated by theNNO are contained.

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

Policies, specialties, restrictions/constrains:

See chapter V.2.3.

Error codes:

Fault code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.3.3.1 Structure

See chapter V.2.3.1.

V.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 release="" xmlns="urn:easee-
gas.eu:edigas:settlement:allocationdocument:5:1:3">
          <identification >557aa1f1305548949a2c87412727dff0</identification>
          <version >1</version>
          <type >96G</type>
          <creationDateTime >2018-03-06T21:40:56.7502247+01:00</creationDateTime>
          <validityPeriod >2018-03-06T21:10Z/2018-03-06T22:10Z</validityPeriod>
          <contractReference >557aa1f1305548949a2c87412727dff0</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"
>FGSZEICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code
>ZSO</recipient_MarketParticipant.marketRole.code>
          <ConnectionPoint >
            <identification codingScheme="305">39ZKAALMASF11GNW</identification>
            <measureUnit.code>KW1</measureUnit.code>
            <Account>
              <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
              <internalAccountTso codingScheme="305">FGSZEICCODE</internalAccountTso>
              <externalAccount codingScheme="305">SHIPPERPAIREICCODE</externalAccount>
              <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
              <TimeSeries>
                <type>Z01</type>
                <Period>
                  <timeInterval>2018-03-02T05:00Z/2018-03-03T05:00Z</timeInterval>
                  <direction.code>Z03</direction.code>
                  <quantity.amount>94992</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">FGSZEICCODE</internalAccountTso>
              <externalAccount codingScheme="305">15X-GDF-SUEZ---2</externalAccount>
              <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
              <TimeSeries>
                <type>Z01</type>
                <Period>
                  <timeInterval>2018-03-02T05:00Z/2018-03-03T05:00Z</timeInterval>
                  <direction.code>Z03</direction.code>
                  <quantity.amount>15850</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">FGSZEICCODE</internalAccountTso>
              <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
              <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
              <TimeSeries>
                <type>Z01</type>

```

```

        <Period>
          <timeInterval>2018-03-02T05:00Z/2018-03-03T05:00Z</timeInterval>
          <direction.code>Z03</direction.code>
          <quantity.amount>53140</quantity.amount>
          <allocationScheme.code>14G</allocationScheme.code>
          <status.code>03G</status.code>
        </Period>
      </TimeSeries>
    </Account>
  </ConnectionPoint>
</Allocation_Document>
</Documents>
</GetAllocationDailyActualResponse>
</s:Body>
</s:Envelope>

```

V.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">
      <GetAllocationDailyActualResult>
        <success>false</success>
        <generalErrorCode>SS0002</generalErrorCode>
        <generalErrorText>[SS0002] Shipper code (SHIPPEREICODE) is missing from DB.</generalErrorText>
      </GetAllocationDailyActualResult>
    </GetAllocationDailyActualResponse>
  </s:Body>
</s:Envelope>

```

V.4 QUERY WITHIN DAY ALLOCATED DATA (GetAllocationWithinDay)

V.4.1 Description

This data service is used to report the current (most recently updated, last version) result of Within Day type of allocation, typically regarding the current gasday (or for the gasday specified in the request).

Name of proposed method: **GetAllocationDailyActual**

V.4.2 Message with request

The request message contains the gasday the allocation data of which the system operator wants to query/request. We always have to query a full gasday (not only a gashour). In the response the system returns as many gashours as are on the gasday, in POD groups.

V.4.2.1 Structure

See chapter V.2.2.1.

V.4.2.1 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://www.w3.org/2003/05/soap-
envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://domain.service.fgsz.hu/GetAllocationWithinDay</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetAllocationWithinDayRequest xmlns="http://domain.service.fgsz.hu">
      <messageHeader>
        <creationDate>2018-01-01T00:00:00</creationDate>
        <messageId>0</messageId>
        <sender codingScheme="ZZZ">NNOCCODE</sender>
      </messageHeader>
      <subjectGasDay>2018-10-03</subjectGasDay>
    </GetAllocationWithinDayRequest>
  </s:Body>
</s:Envelope>
```

V.4.3 Message with response

In the response, the allocation lines per network user regarding the network points operated by theNNO are contained.

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

Policies, specialties, restrictions/constraints:

See chapter V.2.3.

Other additions:

In case of querying Within Day type allocation in the "connectionPoint" block, there are as many "Period" blocks as gashours are in the gasday, and in the "Period" blocks there are POD groups. The POD groups are loaded in the "Period" blocks according to the following rules:

- Measured part => allocationScheme.code = 14G
- Non measured part => allocationScheme.code = 07G
- Profiled part => allocationScheme.code = 09G

V.4.3.1 Structure

See chapter V.2.3.1.

V.4.3.1 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/GetAllocationWithinDay</a:Action>
</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">
    <Documents>
      <Allocation Document release="">
        <identification xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">6ff0b3ec26c2430d856dbb6c7e371c61</identification>
        <version xmlns="urn:easee-gas.eu.edigas.settlement.allocationdocument:5:1:3">1</version>
        <type xmlns="urn:easee-gas.eu.edigas.settlement.allocationdocument:5:1:3">96G</type>
        <creationDateTime xmlns="urn:easee-gas.eu.edigas.settlement.allocationdocument:5:1:3">2018-
10-12T12:26:26.0271379+02:00</creationDateTime>
        <validityPeriod xmlns="urn:easee-gas.eu.edigas.settlement.allocationdocument:5:1:3">2018-
10-03T04:00Z/2018-10-04T04:00Z</validityPeriod>
        <contractReference xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">6ff0b3ec26c2430d856dbb6c7e371c61</contractReferenc
e>
        <contractType xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">CT</contractType>
        <issuer_MarketParticipant.identification codingScheme="305" xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">39X60TIGAZ00000B</issuer_MarketParticipant.identif
ication>
        <issuer_MarketParticipant.marketRole.code xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">ZSO</issuer_MarketParticipant.marketRole.code>
        <recipient_MarketParticipant.identification codingScheme="305" xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">21X-HU-A-A0A0A-
8</recipient_MarketParticipant.identification>
        <recipient_MarketParticipant.marketRole.code xmlns="urn:easee-
gas.eu.edigas.settlement.allocationdocument:5:1:3">ZSO</recipient_MarketParticipant.marketRole.code>
        <ConnectionPoint xmlns="urn:easee-gas.eu.edigas.settlement.allocationdocument:5:1:3">
        <identification codingScheme="305">39ZHAABONY011GNN</identification>
        <measureUnit.code>KW2</measureUnit.code>
        <Account>
          <internalAccount codingScheme="305">15X-EON-EKER---A</internalAccount>
          <internalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</internalAccountTso>
          <externalAccount codingScheme="305">15X-EON-EKER---A</externalAccount>
          <externalAccountTso codingScheme="305">21X-HU-A-A0A0A-8</externalAccountTso>
          <TimeSeries>
            <type>Z01</type>
            <Period>
              <timeInterval>2018-10-03T04:00Z/2018-10-03T05:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>0</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
            <Period>
              <timeInterval>2018-10-03T05:00Z/2018-10-03T06:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>18118</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
            <Period>
              <timeInterval>2018-10-03T06:00Z/2018-10-03T07:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>19322</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
            <Period>
              <timeInterval>2018-10-03T07:00Z/2018-10-03T08:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>20818</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
            <Period>
              <timeInterval>2018-10-03T08:00Z/2018-10-03T09:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>19916</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
            <Period>
              <timeInterval>2018-10-03T09:00Z/2018-10-03T10:00Z</timeInterval>
              <direction.code>Z03</direction.code>
              <quantity.amount>20248</quantity.amount>
              <allocationScheme.code>14G</allocationScheme.code>
            </Period>
          </TimeSeries>
        </Account>
      </Allocation Document>
    </Documents>
  </GetAllocationWithinDayResponse>
</s:Body>
</s:Header>

```



```

        <timeInterval>2018-10-04T02:00Z/2018-10-04T03:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>0</quantity.amount>
        <allocationScheme.code>09G</allocationScheme.code>
    </Period>
    <Period>
        <timeInterval>2018-10-04T03:00Z/2018-10-04T04:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>0</quantity.amount>
        <allocationScheme.code>09G</allocationScheme.code>
    </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</Documents>
<generalErrorCode xsi:nil="true" />
<generalErrorText xsi:nil="true" />
<success>true</success>
</GetAllocationWithinDayResponse>
</s:Body>
</s:Envelope>

```

V.4.3.2 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/GetAllocationWithinDay</a:Action>
  </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">
      <generalErrorCode>SS0001</generalErrorCode>
      <generalErrorText>[SS0001] A bejelentkezett felhasználó partner kódja nem egyezik a sender
mezőben található kóddal: NNOCCODE </generalErrorText>
      <success>false</success>
    </GetAllocationWithinDayResponse>
  </s:Body>
</s:Envelope>

```

V.5 SENDING IN/SUBMITTING DAILY/MONTHLY ALLOCATION DATA (SaveAllocationDaily)

V.5.1 Description

NNO produces the actual daily/monthly type allocation data based on its own factual data.

Daily Allocation: NNO is required to allocate the quantities measured at the network points by nomination lines until 12:00 am (until the end of the editing deadline) on the following day after each gasday.

Monthly Allocation: NNO is required to provide monthly allocation data, meaning reallocation to the individual days of the gasmonth (until the end of the editing deadline).

Name of proposed method: **SaveAllocationDaily**;

V.5.2 Message with request

In the request, the subject gas day and the allocation lines regarding the network points operated by the NNO are included. The response message contains the allocation lines in the Allocation_Document block according to the Edig@ standard.

Note: Also, if the request does not contain allocation lines for all network points, the system will still accept the submitted data. (NNO can even send allocation lines for a single network point, as well.) However, all data must be completed for that network point or points (specified in the request). In addition, allocation data can only be submitted for just like that NU-NU partner pair, that is listed at FGSZ.

Policies, specialties, restrictions/constrains:

See chapter V.2.3.

V.5.2.1 Structure

Name	Description	XML element name	Format / type
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	

V.5.2.2 Xml Example

```
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
  <soapenv:Header/>
  <soapenv:Body>
    <saveAllocationDailyRequest xmlns="http://domain.service.fgsz.hu">
      <Allocation_Document release="" xmlns="urn:easee-gas.eu:edigas:settlement:allocationdocument:5:1:3">
        <identification >db210fe54e184987995fc2ebac28ac6c</identification>
        <version >1</version>
        <type >96G</type>
        <creationDateTime >2018-03-09T14:38:44.4946405+01:00</creationDateTime>
        <validityPeriod >2018-03-09T14:08Z/2018-03-09T15:08Z</validityPeriod>
        <contractReference > db210fe54e184987995fc2ebac28ac6c </contractReference>
        <contractType >CT</contractType>
        <issuer_MarketParticipant.identification type="PartyType" codingScheme="305">
          <NNOEICCODE</issuer_MarketParticipant.identification>
          <issuer_MarketParticipant.marketRole.code >ZSO</issuer_MarketParticipant.marketRole.code>
        <recipient_MarketParticipant.identification type="PartyType" codingScheme="305">
          <FGSZEICCODE</recipient_MarketParticipant.identification>
          <recipient_MarketParticipant.marketRole.code >ZSO</recipient_MarketParticipant.marketRole.code>
        <ConnectionPoint >
          <identification codingScheme="305">39ZKAAJKA0011GNN</identification>
          <measureUnit.code>KW2</measureUnit.code>
          <Account>
            <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
            <internalAccountTso codingScheme="305">FGSZEICCODE</internalAccountTso>
            <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
            <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
          <TimeSeries>
            <type>Z01</type>
            <Period>
```

```

        <timeInterval>2018-03-01T05:00Z/2018-03-02T05:00Z</timeInterval>
        <direction.code>Z03</direction.code>
        <quantity.amount>1967398</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
    </Period>
</TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</saveAllocationDailyRequest>
</soapenv:Body>
</soapenv:Envelope>

```

V.5.3 Message with response

In the response the reference to the original message and the result of the processing are shown. An Error message is shown when processing failed/unsuccessful.

Error codes:

Fault code	Error message
AL0001	The selected allocation item is currently not editable!
AL0002	The sum of allocated quantities must be equal to the quantity measured!
AL0012	Allocation Row Detail with ConnectionPoint: {0}, InternalAccount: {1}, ExternalAccount: {2}, AllocationSchemecode: {3} and TimeInterval: {4} does not exists!
AL0013	The content of the gas period field: "{0}" can not be interpreted as a valid gas period.
AL0014	The content of the system user field: "{0}" can not be interpreted as a valid partner.
AL0015	The content of the RH partner field: "{0}" can not be interpreted as a valid partner.
AL0016	The content of the network point field: "{0}" can not be interpreted as a valid network point.
AL0027	The EIC Code: {0} in InternalAccount/ExternalAccount tag is not unique, workspace can not be identified.
AL0028	Invalid AllocationSchemecode {0}! Valid values are: {1}
AL0030	For the {0} ConnectionPoint in the {1} TimeInterval, the number ({2}) of the allocation row details in the import document is incorrect ({3})!
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.
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.5.3.1 Structure

Name	Description	XML element name	Format / type
Fault 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.	success	xsd:String

V.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">
    <saveAllocationDailyResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <success>true</success>
    </saveAllocationDailyResponse>
  </s:Body>
</s:Envelope>
```

V.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/IFGSZNNOSoapWrapper/SaveAllocationDailyResponse</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>2018-05-17T15:05:39.746Z</u:Created>
        <u:Expires>2018-05-17T15:10:39.746Z</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">
    <saveAllocationDailyResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode>0001</generalErrorCode>
      <generalErrorText>[AL0001] The selected allocation can not be edited currently!</generalErrorText>
      <success>false</success>
    </saveAllocationDailyResponse>
  </s:Body>
</s:Envelope>
```

V.6 SENDING IN/SUBMITTING WITHIN DAY ALLOCATED DATA (SaveAllocationWithinDay)

V.6.1 Description

The NNO generates the actual within-day type allocation data based on hourly measurement data.

The name of the proposed method: **SaveAllocationWithinDay**

V.6.2 Message with request

In the request, the subject gasday and the allocation lines for the network points operated by the NNO are included/specified. The response message contains the allocation lines in the Allocation_Document block according to the Edig@ standard.

Note: Also, if the request does not contain allocation lines for all network points, the system will still accept the submitted data. (NNO can even send allocation lines for a single network point, as well.) However, all data must be completed for that network point or points (specified in the request). In addition, allocation data can only be submitted for just like that SU-SU partner pair, that is listed at FGSZ.

Policies, specialties, restrictions/constrains:

See chapter V.2.3.

Other additions:

In case of sending Within Day type allocation in the "connectionPoint" block, there are as many "Period" blocks as gashours are in the gasday, and in the "Period" blocks there are POD groups. The POD groups are loaded in the "Period" blocks according to the following rules:

- Measured part => allocationScheme.code = 14G
- Non measured part => allocationScheme.code = 07G
- Profiled part => allocationScheme.code = 09G

V.6.2.1 Structure

See chapter V.5.2.1.

V.6.2.2 Xml Example

```
<soapenv:Envelope xmlns:ser="http://domain.service.fgsz.hu" >
  <soapenv:Header/>
  <soapenv:Body>
    <saveAllocationWithinDayRequest xmlns="http://domain.service.fgsz.hu">
      <Allocation_Document release="" xmlns:urn="urn:easee-
gas.eu:edigas:settlement:allocationdocument:5:1:3">
        <identification >28b01e38afa54836bafe7a9ad64eeb98</identification>
        <version >1</version>
        <type >87G</type>
        <creationDateTime >2018-03-09T16:04:34.5655972+01:00</creationDateTime>
        <validityPeriod >2018-03-09T15:34Z/2018-03-09T16:34Z</validityPeriod>
        <contractReference >28b01e38afa54836bafe7a9ad64eeb98</contractReference>
        <contractType >CT</contractType>
      </Allocation_Document>
    </saveAllocationWithinDayRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    <issuer_MarketParticipant.identification          type="PartyType"          codingScheme="305"
>NNOEICCODE</issuer_MarketParticipant.identification>
    <issuer_MarketParticipant.marketRole.code
>ZSO</issuer_MarketParticipant.marketRole.code>
    <recipient_MarketParticipant.identification      type="PartyType"          codingScheme="305"
>FGSZEICCODE</recipient_MarketParticipant.identification>
    <recipient_MarketParticipant.marketRole.code
>ZSO</recipient_MarketParticipant.marketRole.code>
    <ConnectionPoint >
    <identification codingScheme="305">39ZKEBATMON11GNF</identification>
    <measureUnit.code>KW2</measureUnit.code>
    <Account>
    <internalAccount codingScheme="305">SHIPPEREICCODE</internalAccount>
    <internalAccountTso codingScheme="305">FGSZEICCODE</internalAccountTso>
    <externalAccount codingScheme="305">SHIPPEREICCODE</externalAccount>
    <externalAccountTso codingScheme="305">FGSZEICCODE</externalAccountTso>
    <TimeSeries>
    <type>Z01</type>
    <Period>
    <timeInterval>2018-03-02T05:00Z/2018-03-02T06:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>100</quantity.amount>
    <allocationScheme.code>04G</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>100</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T07:00Z/2018-03-02T08:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>100</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T08:00Z/2018-03-02T09:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>300</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T09:00Z/2018-03-02T10:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>300</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T10:00Z/2018-03-02T11:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>300</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T11:00Z/2018-03-02T12:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>300</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T12:00Z/2018-03-02T13:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>300</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
    </Period>
    <Period>
    <timeInterval>2018-03-02T13:00Z/2018-03-02T14:00Z</timeInterval>
    <direction.code>Z03</direction.code>

```



```

        <quantity.amount>660</quantity.amount>
        <allocationScheme.code>04G</allocationScheme.code>
        <status.code>03G</status.code>
    </Period>
</Period>
    <timeInterval>2018-03-03T01:00Z/2018-03-03T02:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>660</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
</Period>
</Period>
    <timeInterval>2018-03-03T02:00Z/2018-03-03T03:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>330</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
</Period>
</Period>
    <timeInterval>2018-03-03T03:00Z/2018-03-03T04:00Z</timeInterval>
    <direction.code>Z03</direction.code>
    <quantity.amount>330</quantity.amount>
    <allocationScheme.code>04G</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>330</quantity.amount>
    <allocationScheme.code>04G</allocationScheme.code>
    <status.code>03G</status.code>
</Period>
</TimeSeries>
</Account>
</ConnectionPoint>
</Allocation_Document>
</saveAllocationWithinDayRequest>
</soapenv:Body>
</soapenv:Envelope>

```

V.6.3 Message with response

In the response the reference to the original message and the result of the processing are shown. An Error message is shown when processing failed/unsuccessful.

Error codes:

Fault code	Error message
AL0001	The selected allocation item is currently not editable!
AL0002	The sum of allocated quantities must be equal to the quantity measured.
AL0013	The content of the gas period field: "{0}" can not be interpreted as a valid gas period.
AL0014	The content of the system user field: "{0}" can not be interpreted as a valid partner.
AL0015	The content of the RH partner field: "{0}" can not be interpreted as a valid partner.
AL0016	The content of the network point field: "{0}" can not be interpreted as a valid network point.
AL0027	The EIC Code: {0} in InternalAccount/ExternalAccount tag is not unique, workspace can not be identified.

AL0028	Invalid AllocationSchemecode {0}! Valid values are: {1}
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.
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.6.3.1 Structure

See chapter V.5.3.1.

V.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">
    <saveAllocationWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true"/>
      <generalErrorText xsi:nil="true"/>
      <success>true</success>
    </saveAllocationWithinDayResponse>
  </s:Body>
</s:Envelope>
```

V.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/IFGSZNNOSoapWrapper/SaveAllocationWithinDayResponse</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>2018-05-17T15:13:27.787Z</u:Created>
        <u:Expires>2018-05-17T15:18:27.787Z</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">
    <saveAllocationWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode>0001</generalErrorCode>
      <generalErrorText>[AL0013] The gasperiod field is not valid.</generalErrorText>
      <success>false</success>
    </saveAllocationWithinDayResponse>
  </s:Body>
</s:Envelope>
```

V.7 SENDING IN/SUBMITTING ALLOCATED HOURLY PEAK DATA (SaveAllocationHourlyPeak)

V.7.1 Description

System operators must provide hourly peak data for the previous gas month. Hourly peak data delivery starts with the monthly allocation at a time.

For each given gas day, the system operator may only specify its allocation data to those network points to which it is assigned as a system operator. Data is provided regarding to network points, gas days, and network users. The NNO specifies in which gashour of the gasday the consumption was the highest and the amount (kWh) of that.

Name of proposed method: **SaveAllocationHourlyPeak**

V.7.2 Message with request

In the request, the subject gasday and the hourly peak allocation lines for the network points operated by the NNO are included/specified.

Note: Also, if the request does not contain allocation lines for all network points, the system will still accept the submitted data. (NNO can even send allocation lines for a single network point, as well.) However, all data must be completed for that network point or points (specified in the request). In addition, allocation data can only be submitted for just like that NU-NU partner pair, that is listed at FGSZ.

Policies, specialties, restrictions/constrains:

See chapter V.2.3.

V.7.2.1 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 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
Serial number	Serial number used to identify allocated hourly peak data sequences - if a data line gets blocked by a business audit, the reference is	lineNumber	xsd: Number

	made to this sequence/serial number in the response.		
Network Point ID	The IP code of the network point to which the error message can be directly related.	networkPoint	xsd: String
Subject Gas day	Subject Gas day	gasDay	xsd:date (ÉÉÉÉ-HH-NN)
Hour of hourly peak	The hour of the largest allocated quantity received on a given day. Its value on an average day can be between 1 to 24. On a 25-hour day it is 1-25. On a 23-hour day it is –1-23. Its value is calculated from the beginning of the gasday (6:00).	peakHourOfGasDay	xsd: Number
Allocated quantity in kWh	Allocated quantity received for the given hourly peak in kWh	hourlyPeakQuantity	xsd: Number
Shipper	Shipper code	shipper	xsd:String

V.7.2.2 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:SaveAllocationHourlyPeakRequest>
      <dom:messageHeader>
        <dom:creationDate>2018-02-28</dom:creationDate>
        <dom:messageId>001</dom:messageId>
        <dom:sender codingScheme="ZZZ">NNOCODE</dom:sender>
      </dom:messageHeader>
      <dom:AllocationHourlyPeakData>
        <!--Zero or more repetitions:-->
        <dom:allocationHourlyPeakDataLine>
          <dom:lineNumber>1</dom:lineNumber>
          <dom:networkPoint codingScheme="ZZZ">KEBATMON11GN</dom:networkPoint>
          <dom:gasDay>2018-02-28</dom:gasDay>
          <dom:peakHourOfGasDay>9</dom:peakHourOfGasDay>
          <dom:hourlyPeakQuantity measureUnit="KW1">400</dom:hourlyPeakQuantity>
          <dom:shipper codingScheme="ZZZ">SHIPPERCODE</dom:shipper>
        </dom:allocationHourlyPeakDataLine>
      </dom:AllocationHourlyPeakData>
    </dom:SaveAllocationHourlyPeakRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

V.7.3 Message with Response

In the response the reference to the original message and the result of the processing are shown. Error message is shown when processing failed/unsuccessful.

Error codes:

Fault code	Error message
AL0001	The selected allocation item is currently not editable!
AL0009	Peak hour data is invalid. Peak hour consumption (kWh/hour) = {} falls outside of the allowed range {{1} - {2}}
AL0010	The sum of allocated quantities to the POD groups is {0}, not equal to the total allocated quantity: {1}
AL0013	The content of the gas period field: "{0}" can not be interpreted as a valid gas period.
AL0014	The content of the system user field: "{0}" cannot be interpreted as a valid partner.
AL0015	The content of the RH partner field: "{0}" cannot be interpreted as a valid partner.
AL0016	The content of the network point field: "{0}" can not be interpreted as a valid network point.
AL0017	One hourly peak value must be specified per peak hour items, in hourly breakdown.
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.
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.7.3.1 Structure

Name	Description	XML element name	Format / type
Fault code	Error message code in the event of error.	generalErrorCode	xsd:String
Error message	Error message in the event of error.	generalErrorText	xsd:String
Successfulness	Bit showing the successfulness of processing the originalmessage.	success	xs:boolean
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 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

V.7.3.2 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">
    <SaveAllocationHourlyPeakResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <originalMessageHeader>
        <creationDate>2018-02-28T00:00:00</creationDate>
        <messageId>1</messageId>
        <sender codingScheme="ZZZ">NNOCODE</sender>
      </originalMessageHeader>
    </SaveAllocationHourlyPeakResponse>
  </s:Body>
</s:Envelope>
```

V.7.3.3 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/IFGSZNNOSoapWrapper/SaveAllocationHourlyPeakResponse</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>2018-05-18T13:56:55.235Z</u:Created>
        <u:Expires>2018-05-18T14:01:55.235Z</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">
    <SaveAllocationHourlyPeakResponse xmlns="http://domain.service.fgsz.hu">
      <success>false</success>
      <generalErrorCode>0001</generalErrorCode>
      <generalErrorText>[AL0009] Hourly peak data is invalid. Hourly peak consumption
(kWh/hour) = 5000 falls outside of the allowed range (15098000 - 362352000)</generalErrorText>
    </SaveAllocationHourlyPeakResponse>
  </s:Body>
</s:Envelope>
```

V.8 SENDING IN/SUBMITTING ALLOCATED HOURLY PEAK DATA (SaveAllocationHourlyPeakByNominationRow)

V.8.1 Description

System operators must provide hourly peak data for the previous gas month. Hourly peak data delivery starts with the monthly allocation at a time.

For each given gas day, the system operator may only specify its allocation data to those network points to which it is assigned as a system operator. Data is provided regarding to network points, gas days, and network users. The NNO specifies in which gashour of the gasday the consumption was the highest and the amount (kWh) of that.

Name of proposed method: **SaveAllocationHourlyPeakByNominationRow**

V.8.2 Message with request

In the request, the subject gasday and the hourly peak allocation lines to nomination rows for the network points operated by the NNO are included/specified.

Note: Also, if the request does not contain allocation lines for all network points, the system will still accept the submitted data. (NNO can even send allocation lines for a single network point, as well.) However, all data must be completed for that network point or points (specified in the request). In addition, allocation data can only be submitted for just like that SU-SU partner pair, that is listed at FGSZ.

Policies, specialties, restrictions/constrains:

See chapter V.2.3.

V.8.2.1 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 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
Serial number	Serial number used to identify allocated hourly peak data sequences - if a data line gets blocked by a business audit, the reference is made to this sequence/serial number in the response.	lineNumber	xsd: Number
Network Point ID	The IP code of the network point to which the error message can be directly related.	networkPoint	xsd: String
Subject Gas day	Subject Gas day	gasDay	xsd:date (ÉÉÉÉ-HH-NN)
Allocated quantity in kWh	Allocated quantity received for the given hourly peak in kWh	hourlyPeakQuantity	xsd: Number
Shipper	Shipper code	shipper	xsd:String
Shipper PAir	Shipper Pair code	shipperPair	xsd:String

V.8.2.2 Xml Example

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://www.w3.org/2003/05/soap-
envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://domain.service.fgsz.hu/SaveAllocationHourlyPeakByNominationRow</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveAllocationHourlyPeakByNominationRowRequest xmlns="http://domain.service.fgsz.hu">
      <allocationHourlyPeakByNominationRowDataLines>
        <allocationHourlyPeakByNominationRowDataLine>
          <lineNumber>1</lineNumber>
          <networkPoint codingScheme="ZZZ">HABERETT11GN</networkPoint>
          <gasDay>2019-11-30</gasDay>
          <hourlyPeakQuantity measureUnit="JM">3000</hourlyPeakQuantity>
          <shipper codingScheme="ZZZ">SHIPPERCODE</shipper>
          <shipperPair codingScheme="ZZZ">SHIPPERCODE</shipperPair>
        </allocationHourlyPeakByNominationRowDataLine>
      </allocationHourlyPeakByNominationRowDataLines>
      <messageHeader>
        <creationDate>2019-11-30T00:00:00</creationDate>
        <messageId>1</messageId>
        <sender codingScheme="ZZZ">NNOCODE</sender>
      </messageHeader>
    </SaveAllocationHourlyPeakByNominationRowRequest>
  </s:Body>
</s:Envelope>
```

V.8.3 Message with Response

In the response the result of the processing are shown. Error message is shown when processing failed/unsuccessful.

Error codes:

Fault code	Error message
AL0001	The selected allocation item is currently not editable!
AL0013	The content of the gas period field: "{0}" can not be interpreted as a valid gas period.
AL0014	The content of the system user field: "{0}" cannot be interpreted as a valid partner.
AL0015	The content of the RH partner field: "{0}" cannot be interpreted as a valid partner.
AL0016	The content of the network point field: "{0}" can not be interpreted as a valid network point.
AL0036	Detail with Networkpoint: {0}, Network user: {1}, NU CounterParty: {2} and GasPeriod: {3} does not exists!
AL0037	In {0} row detail the Peak gashour quantity (kWh) must be integer and minimum 0! ({1})
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.
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

V.8.3.1 Structure

Name	Description	XML element name	Format / type
Fault code	Error message code in the event of error.	generalErrorCode	xsd:String
Error message	Error message in the event of error.	generalErrorText	xsd:String
Successfulness	Bit showing the successfulness of processing the originalmessage.	success	xs:boolean

V.8.3.2 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/SaveAllocationHourlyPeakByNominationRow</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveAllocationHourlyPeakByNominationRowResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode xsi:nil="true" />
      <generalErrorText xsi:nil="true" />
      <success>true</success>
    </SaveAllocationHourlyPeakByNominationRowResponse>
  </s:Body>
</s:Envelope>
```

V.8.3.3 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/SaveAllocationHourlyPeakByNominationRow</a:Action>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <SaveAllocationHourlyPeakByNominationRowResponse xmlns="http://domain.service.fgsz.hu">
      <generalErrorCode>0001</generalErrorCode>
      <generalErrorText>[SS0003] A rendszerüzemeltető kódja (xxx) nem található az adatbázisban.
</generalErrorText>
      <success>false</success>
    </SaveAllocationHourlyPeakByNominationRowResponse>
  </s:Body>
</s:Envelope>
```

VI. Measurement services

VI.1 Business 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. Az adatszolgáltatásban a rendszerüzemeltetők esetében csak azon elemi pontok jelennek meg, melyekhez tartozó hálózati pontok a rendszerüknek a földgázszállítási rendszerrel való csatlakozását biztosítják. In the case of data providers, only the elementary points for the system operators whose network points belong to their system are connected to the natural gas transmission system.

VI.2 DAILY MEASUREMENT DATA SERVICE (GetMeasurementDaily)

VI.2.1 Description

Ez az adatszolgáltatás mennyiségi és minőségi mérési adatokat szolgáltat NNO számára, jellemzően az adott gáznapra vonatkozóan a legfrissebb, legutolsó verziót. This data service provides quantitative and qualitative measurements to NNO, typically the most recently updated, latest version of the given gas day.

Name of proposed method: **GetMeasurementDaily**

VI.2.2 Message with request

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

VI.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
-----------------------	---	----------------------	------------

VI.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">NNOCODE</dom:sender>
      </dom:messageHeader>
      <dom:subjectGasDay>2018-03-01</dom:subjectGasDay>
    </dom:GetMeasurementDailyRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

VI.2.3 Message with response

In the response, the measurement data regarding the elementary points that belong to the network points operated by the NNO are listed.

Error codes:

Fault code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

VI.2.3.1 Structure

Name	Description	XML element name	Format / type
Fault code	Error message code in the event of error.	generalErrorCode	xsd:String
Error message	Error message in the event of error.	generalErrorText	xsd:String
Successfulness	Bit showing the successfulness of processing the original message.	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 Operator Code	System	Code (IP system code) of the System Operator connecting at the point	operator	
Measurement data		At the point, the quality and quantity measurement data measured on the Subject gasday. The measurement data category is displayed encoded. The measured quantity itself is in the unit of measurement as of the table below.	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	

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	

VI.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">
    <GetMeasurementDailyResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <measurementData direction="OUT">
        <HourOfGasDay>0</HourOfGasDay>
        <location codingScheme="ZZZ">GEKAPOSV21GN</location>
        <description>Kaposvár II</description>
        <operator codingScheme="ZZZ">NNOCODE</operator>
        <measuredQuantity dimension="E25" measureUnit="KWH">3675690</measuredQuantity>
        <measuredQuantity dimension="E15" measureUnit="_3B">11947695</measuredQuantity>
        <measuredQuantity dimension="V15" measureUnit="MQ5">340750</measuredQuantity>
        <measuredQuantity dimension="V00" measureUnit="MQ5">322868</measuredQuantity>
        <measuredQuantity dimension="DN2" measureUnit="Z99">0.6013</measuredQuantity>
        <measuredQuantity dimension="DN1" measureUnit="Z99">0.6011</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="KW3">11.3845</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="JM">38.87277</measuredQuantity>
        <measuredQuantity dimension="HIB" measureUnit="MOL">0.1523</measuredQuantity>
      </measurementData>
    </GetMeasurementDailyResponse>
  </s:Body>
</s:Envelope>
```

```

<measuredQuantity dimension="HIP" measureUnit="MOL">0.0413</measuredQuantity>
<measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
<measuredQuantity dimension="HPN" measureUnit="MOL">0.0307</measuredQuantity>
<measuredQuantity dimension="LCV" measureUnit="KW3">10.278131</measuredQuantity>
<measuredQuantity dimension="LCV" measureUnit="JM">35.062936</measuredQuantity>
<measuredQuantity dimension="ZN" measureUnit="MOL">1.3674</measuredQuantity>
<measuredQuantity dimension="ZQD" measureUnit="MOL">0.8062</measuredQuantity>
<measuredQuantity dimension="ZQF" measureUnit="MOL">1.0252</measuredQuantity>
<measuredQuantity dimension="ZQG" measureUnit="MOL">3.1636</measuredQuantity>
<measuredQuantity dimension="ZQH" measureUnit="MOL">93.1825</measuredQuantity>
<measuredQuantity dimension="ZQI" measureUnit="JM">0.1861</measuredQuantity>
<measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0448</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="KW3">14.6811</measuredQuantity>
<measuredQuantity dimension="ZWI" measureUnit="JM">50.1365</measuredQuantity>
<measuredQuantity dimension="C00" measureUnit="MOL">0.5662</measuredQuantity>
<measuredQuantity dimension="C15" measureUnit="MOL">0.5367</measuredQuantity>
</measurementData>
<measurementData direction="OUT"
  <HourOfGasDay>0</HourOfGasDay>
  <location codingScheme="ZZZ">GETAPOLC11GN</location>
  <description>Tapolca</description>
  <operator codingScheme="ZZZ">NNOCODE</operator>
  <measuredQuantity dimension="E25" measureUnit="KWH">1060469</measuredQuantity>
  <measuredQuantity dimension="E15" measureUnit="3B">3446975</measuredQuantity>
  <measuredQuantity dimension="V15" measureUnit="MQ5">98308</measuredQuantity>
  <measuredQuantity dimension="V00" measureUnit="MQ5">93150</measuredQuantity>
  <measuredQuantity dimension="DN2" measureUnit="Z99">0.6013</measuredQuantity>
  <measuredQuantity dimension="DN1" measureUnit="Z99">0.6011</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="KW3">11.384526</measuredQuantity>
  <measuredQuantity dimension="GCV" measureUnit="JM">38.872858</measuredQuantity>
  <measuredQuantity dimension="HIB" measureUnit="MOL">0.1523</measuredQuantity>
  <measuredQuantity dimension="HIP" measureUnit="MOL">0.0413</measuredQuantity>
  <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
  <measuredQuantity dimension="HPN" measureUnit="MOL">0.0307</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="KW3">10.278154</measuredQuantity>
  <measuredQuantity dimension="LCV" measureUnit="JM">35.063014</measuredQuantity>
  <measuredQuantity dimension="ZN" measureUnit="MOL">1.3674</measuredQuantity>
  <measuredQuantity dimension="ZQD" measureUnit="MOL">0.8062</measuredQuantity>
  <measuredQuantity dimension="ZQF" measureUnit="MOL">1.0252</measuredQuantity>
  <measuredQuantity dimension="ZQG" measureUnit="MOL">3.1636</measuredQuantity>
  <measuredQuantity dimension="ZQH" measureUnit="MOL">93.1825</measuredQuantity>
  <measuredQuantity dimension="ZQI" measureUnit="JM">0.1861</measuredQuantity>
  <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0448</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="KW3">14.6812</measuredQuantity>
  <measuredQuantity dimension="ZWI" measureUnit="JM">50.1367</measuredQuantity>
  <measuredQuantity dimension="C00" measureUnit="MOL">0.5662</measuredQuantity>
  <measuredQuantity dimension="C15" measureUnit="MOL">0.5367</measuredQuantity>
</measurementData>
<subjectGasDay>2018-03-01</subjectGasDay>
</GetMeasurementDailyResponse>
</s:Body>
</s:Envelope>

```

VI.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/IFGSZNNOSoapWrapper/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>2018-05-18T13:46:24.709Z</u:Created>
        <u:Expires>2018-05-18T13:51:24.709Z</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">
      <success>false</success>
    </GetMeasurementDailyResponse>
  </s:Body>
</s:Envelope>

```

```

        <generalErrorText>[SS0003] The system operator code (NNOCODE) can not be found in the
database.</generalErrorText>
        <generalErrorCode>SS0003</generalErrorCode>
    </GetMeasurementDailyResponse>
</s:Body>
</s:Envelope>

```

VI.3 WITHIN DAY MEASUREMENT DATA SERVICE (GetMeasurementWithinDay)

VI.3.1 Description

This data service provides quantitative and qualitative measurements for the NNO, typically the most recent, latest version regarding to the given gas day.

Name of proposed method: **GetMeasurementWithinDay**

VI.3.2 Message with request

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

VI.3.2.1 Structure

See chapter V.2.2.1.

VI.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:GetMeasurementWithinDayRequest>
            <dom:messageHeader>
                <dom:creationDate>2018-03-02</dom:creationDate>
                <dom:messageId>002</dom:messageId>
                <dom:sender codingScheme="ZZZ">NNOCODE</dom:sender>
            </dom:messageHeader>
            <dom:subjectGasDay>2018-03-02</dom:subjectGasDay>
        </dom:GetMeasurementWithinDayRequest>
    </soapenv:Body>
</soapenv:Envelope>

```

VI.3.3 Message with Response

In the response, the measurement data regarding the elementary points that belong to the network points operated by the NNO are listed.

Error codes:

Fault code	Error message
SS0001	The registered/logged-in user partner's code does not match the code in the sender field.
SS0003	The network user code is not found in the database.

VI.3.3.1 Structure

See chapter VI.3.3.1.

VI.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">
    <GetMeasurementWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <success>true</success>
      <measurementData direction="OUT">
        <HourOfGasDay>1</HourOfGasDay>
        <location codingScheme="ZZZ">GEKAPOSV21GN</location>
        <description>Kaposvár II</description>
        <operator codingScheme="ZZZ">NNOCODE</operator>
        <measuredQuantity dimension="E25" measureUnit="KWH">186059</measuredQuantity>
        <measuredQuantity dimension="E15" measureUnit="_3B">604783</measuredQuantity>
        <measuredQuantity dimension="V15" measureUnit="MQ5">17259</measuredQuantity>
        <measuredQuantity dimension="V00" measureUnit="MQ5">16353</measuredQuantity>
        <measuredQuantity dimension="DN2" measureUnit="Z99">0.6013</measuredQuantity>
        <measuredQuantity dimension="DN1" measureUnit="Z99">0.6011</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="KW3">11.377663</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="JM">38.849449</measuredQuantity>
        <measuredQuantity dimension="HIB" measureUnit="MOL">0.1534</measuredQuantity>
        <measuredQuantity dimension="HIP" measureUnit="MOL">0.0421</measuredQuantity>
        <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
        <measuredQuantity dimension="HPN" measureUnit="MOL">0.0315</measuredQuantity>
        <measuredQuantity dimension="LCV" measureUnit="KW3">10.271866</measuredQuantity>
        <measuredQuantity dimension="LCV" measureUnit="JM">35.04158</measuredQuantity>
        <measuredQuantity dimension="ZN" measureUnit="MOL">1.3943</measuredQuantity>
        <measuredQuantity dimension="ZQD" measureUnit="MOL">0.81</measuredQuantity>
        <measuredQuantity dimension="ZQF" measureUnit="MOL">1.0282</measuredQuantity>
        <measuredQuantity dimension="ZQG" measureUnit="MOL">3.1667</measuredQuantity>
        <measuredQuantity dimension="ZQH" measureUnit="MOL">93.1535</measuredQuantity>
        <measuredQuantity dimension="ZQI" measureUnit="JM">0.1872</measuredQuantity>
        <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0332</measuredQuantity>
        <measuredQuantity dimension="ZWI" measureUnit="KW3">14.6729</measuredQuantity>
        <measuredQuantity dimension="ZWI" measureUnit="JM">50.1086</measuredQuantity>
        <measuredQuantity dimension="C00" measureUnit="MOL">0.5658</measuredQuantity>
        <measuredQuantity dimension="C15" measureUnit="MOL">0.5363</measuredQuantity>
      </measurementData>
      <measurementData direction="OUT">
        <HourOfGasDay>2</HourOfGasDay>
        <location codingScheme="ZZZ">GEKAPOSV21GN</location>
        <description>Kaposvár II</description>
        <operator codingScheme="ZZZ">NNOCODE</operator>
        <measuredQuantity dimension="E25" measureUnit="KWH">159458</measuredQuantity>
        <measuredQuantity dimension="E15" measureUnit="_3B">518354</measuredQuantity>
        <measuredQuantity dimension="V15" measureUnit="MQ5">14750</measuredQuantity>
        <measuredQuantity dimension="V00" measureUnit="MQ5">13976</measuredQuantity>
        <measuredQuantity dimension="DN2" measureUnit="Z99">0.6032</measuredQuantity>
        <measuredQuantity dimension="DN1" measureUnit="Z99">0.603</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="KW3">11.409386</measuredQuantity>
        <measuredQuantity dimension="GCV" measureUnit="JM">38.957584</measuredQuantity>
        <measuredQuantity dimension="HIB" measureUnit="MOL">0.1662</measuredQuantity>
        <measuredQuantity dimension="HIP" measureUnit="MOL">0.0488</measuredQuantity>
        <measuredQuantity dimension="HNP" measureUnit="MOL">0</measuredQuantity>
        <measuredQuantity dimension="HPN" measureUnit="MOL">0.0372</measuredQuantity>
        <measuredQuantity dimension="LCV" measureUnit="KW3">10.301522</measuredQuantity>
        <measuredQuantity dimension="LCV" measureUnit="JM">35.142616</measuredQuantity>
      </measurementData>
    </GetMeasurementWithinDayResponse>
  </s:Body>
</s:Envelope>
```



```

    <measuredQuantity dimension="ZN" measureUnit="MOL">1.3872</measuredQuantity>
    <measuredQuantity dimension="ZQD" measureUnit="MOL">0.8161</measuredQuantity>
    <measuredQuantity dimension="ZQF" measureUnit="MOL">1.0702</measuredQuantity>
    <measuredQuantity dimension="ZQG" measureUnit="MOL">3.1971</measuredQuantity>
    <measuredQuantity dimension="ZQH" measureUnit="MOL">93.0126</measuredQuantity>
    <measuredQuantity dimension="ZQI" measureUnit="JM">0.2132</measuredQuantity>
    <measuredQuantity dimension="ZQJ" measureUnit="MOL">0.0513</measuredQuantity>
    <measuredQuantity dimension="ZWI" measureUnit="KW3">14.6907</measuredQuantity>
    <measuredQuantity dimension="ZWI" measureUnit="JM">50.169</measuredQuantity>
    <measuredQuantity dimension="C00" measureUnit="MOL">0.5679</measuredQuantity>
    <measuredQuantity dimension="C15" measureUnit="MOL">0.5383</measuredQuantity>
  </measurementData>
  <subjectGasDay>2018-03-02</subjectGasDay>
</GetMeasurementWithinDayResponse>
</s:Body>
</s:Envelope>

```

VI.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/IFGSZNNOSoapWrapper/GetMeasurementWithinDay
Response</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>2018-05-18T13:51:55.609Z</u:Created>
        <u:Expires>2018-05-18T13:56:55.609Z</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">
    <GetMeasurementWithinDayResponse xmlns="http://domain.service.fgsz.hu">
      <GetMeasurementWithinDayResult>
        <success xmlns="http://domain.service.fgsz.hu">false</success>
        <generalErrorText xmlns="http://domain.service.fgsz.hu">[SS0001] The logged-in partner's
code does not match the code in the sender field: NNOCODE</generalErrorText>
        <generalErrorCode_x0020_
xmlns="http://domain.service.fgsz.hu">SS0001</generalErrorCode_x0020_>
      </GetMeasurementWithinDayResult>
    </GetMeasurementWithinDayResponse>
  </s:Body>
</s:Envelope>

```