



Information Service

Integration and use instructions

Table of contents

1	About Information Service	3
2	Information Service Integration	3
2.1	Pre-requisites	3
2.1.1	<i>Firewall openings</i>	3
2.1.2	<i>User credentials</i>	3
2.2	Description of request	5
2.3	Integration Procedure	6
2.3.1	<i>Web Service</i>	6
2.3.2	<i>Request Limitations</i>	6
3	Usage	7
3.1	Interfaces	7
3.1.1	<i>Request Format</i>	7
3.1.2	<i>Result Format</i>	8
3.1.3	<i>Supported Data Flows</i>	9
3.1.4	<i>Handling of Optional Parameters</i>	79
3.1.5	<i>Full example of the XML when sending request</i>	79

1 About Information Service

Information Service (INFS) is a web service provided by eSett for the use of members of Nordic Imbalance Settlement.

The purpose of Information Service is to enable market parties to request information from Nordic Imbalance Settlement system in machine readable form.

This allows Market Participants to retrieve hourly data (such as metered values in selected consumption points, reported bilateral trade values etc., see full list of supported data flows in [Chapter 3.1.3](#)) and structure data, to which Participant has access.

2 Information Service Integration

2.1 Pre-requisites

There are two pre-requisites, which needs to be made before user can make any queries towards Information Service and receive data:

1. firewall rules of user and eSett would have to allow queries and answers
2. user credentials used to make the queries would have to be entitled to ask for settlement data of the Market Participant.

2.1.1 Firewall openings

To access Information Service and to be able to make any requests, firewall opening(s) towards Information Service needs to be made.

Possibly, also user needs to make a firewall opening to be able to make a query and receive data. This action is Information Service user's own responsibility.

Firewall opening can be order as a Service Request from eSett Service desk either via [web form](#), or via email from settlement@esett.com.

2.1.2 User credentials

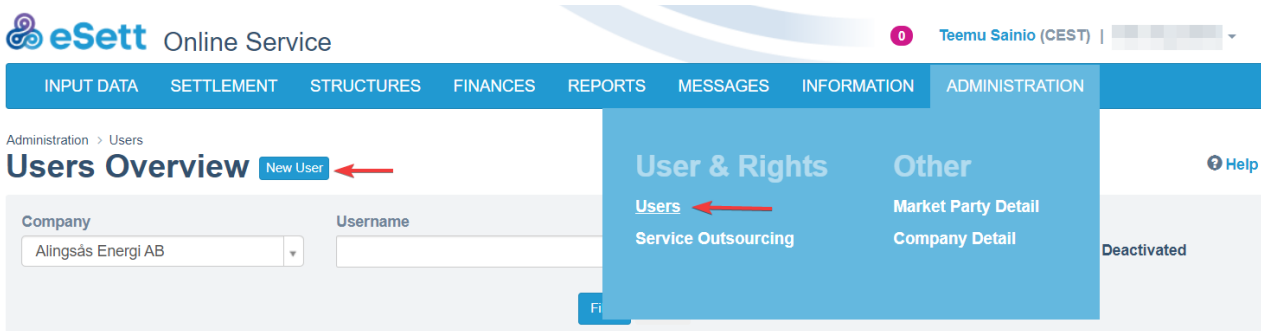
User credentials used in Information Service are the same, which are used in another Service hosted by eSett, the [Online Service](#).

To make queries to Information Service, user must have either of following rights:

- External Interface Role - Read (R)
- External Interface Role - Read and Write (R/W).

The permissions can be verified via Online Service by the Administrator user of user's Company (ADMINISTRATION > Users).

Below are couple images to help with adding or editing permissions in Online Service.



1. Select ADMINISTRATION and under User & Rights choose Users
2. Next to Users overview heading, there is New user button

3. Fill the form to create a new user for your company

Refresh Export to Excel Save Settings Restore Default View Columns

Username	First Name	Last Name	Market Role	Invoices Role	Collateral Role	External Interface Role	User Type	Validity
EMPTY_DSO_M2M	EMPTY DSO	M2M	N	N	N	N	User	Active

User preference

Preferred MP - Market Activity	
Preferred MP - Grid Activity	
Preferred Language	English
Preferred Decimal Unit	6
Preferred Units	MWh
Preferred Timezone	CET (UTC+1) / CEST (UTC+2)

Contact details

Email	empty_email
Phone	+000

Total pages: 1 (1 rows)

Edit Deactivate Reset Password

4. You can edit existing user rights and info from the same page or reset the accounts password, if needed.

2.2 Description of request

Information Service uses common Request-Reply synchronous communication pattern.

Following figure explains the composition of Web Service Request Interface.

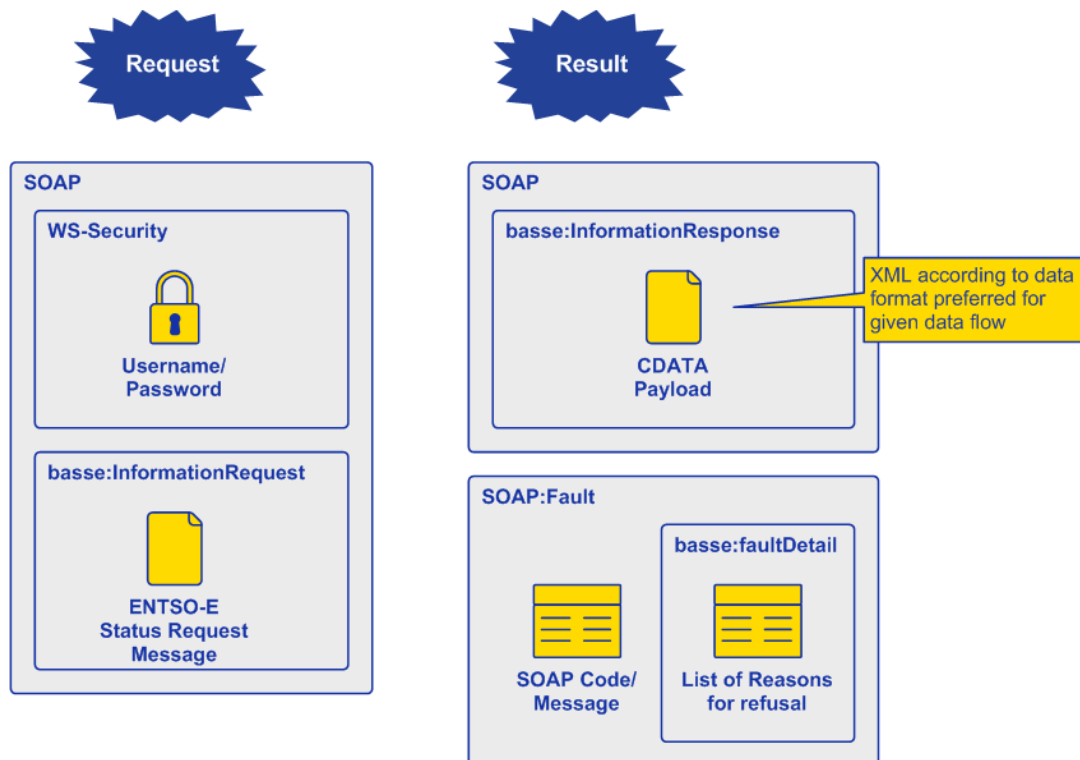


Figure: Physical Request Format

eSett

2022-05-11

Public

The request uses WS-Security envelope to transmit the [user's credentials](#).

The request itself is composed as ENTSO-E Status Request document.

WSDL URL location can be found in Online Service's frontpage as Web Service URL. WSDL file can be requested from the Information Services web service URL which can be found at front page of online service and appending ?WSDL to the URL's ending.

WSDL is an XML notation describing a web services functionality.

Based on the request, Balance Settlement System creates a response, consisting of according business document (one of the supported ENTSO-E or ebIX formats) and passes it back to MPS as a Message. Response you receive is an XML document in format defined by the data flow specification. You can see examples of result formats below. In case of an error the system will return you, a SOAP fault document containing detailed information about the error in question.

2.3 Integration Procedure

Integration procedure is the creation of your application which is able to use Information Service. Creation of that application lies with the market party and this document helps with that process.

The main prerequisite for integration is ability to create ENTSO-E Status Request Document (with parameters defined in [3.1.1](#)) and process the returned Messages (of ENTSO-E or ebIX formats).

This can be done with any technical process and/or technology if it complies with Information Services pre-requisites and is able to send and receive different document types Information Service requires.

2.3.1 Web Service

Market Party System implements a WS Client and configures it with Information Service URL (provided by eSett) and sets WS-Security username/password to credentials provided by eSett. Market Party System uses this WS client to send Status Request Messages to Information Service and gets set of requested information contained in ENTSO-E or ebIX document (defined in 3.1.1).

2.3.2 Request Limitations

The technical configuration of Information Service allows setting following parameters to limit the usage. In case any of these limitations is exceeded by the caller of the Information Service; an appropriate exception is returned to the caller.

Limitation	Default Value	Description
Maximum Data Values in Request	74.000	Maximum number of data values in a single Request.
Maximum Number of Values per Minute	740.000	Maximum number of values requested by 1 Market Participant per one minute. This throttles the communication with single Market Participant and protects Information Service against abnormal usage.

3 Usage

3.1 Interfaces

Information Service interface allows Market Party System to request data from Balance Settlement System. The request is represented by an ENTSO-E Status Request Message.

Based on the request, Balance Settlement System creates a response, consisting of according to business document (one of the supported ENTSO-E or ebIX formats) and passes it back to Market Party System as a Message. Using this interface, Market Party System can retrieve information related to the Settlement process.

Information Service provides Web Service as a channel to access the information. Market Party System must implement specific WS Client to use Information Service. The details of the Web Service Channel are specified in section below.



Figure 7: Information Service Channel

3.1.1 Request Format

The Information Service uses ENTSO-E Status Request Document 2.0 as a request format. The document gives sufficient flexibility to request the data from Information Service. The identification of Data Flow and any parameters that need to be passed as data filtering criteria can be represented using the RequestComponent element (see example below).

Examples of different request formats can be found below underneath according to the data flow.

The available attributes for given data flows are documented in detail below. The RequestComponent attributes is designed in order to use standard message attributes (e.g. DocumentType or ProcessType) where possible. For header construction, please note following security notes:

- Add into soap header wsse:Security element with username and plain password.
- Add default wsa:Action and add default wsa:To

Roles and the corresponding codes in requests:

- Balance Responsible Party (Sender role code A08)
- Retailer (Sender role code A12)
- Distribution System Operator (Sender role code A18)

3.1.2 Result Format

Every Data Flow supported by the Information Service can have in general different data format.

Response from method 'GetData' is in an XML format that corresponds to the data that is received. Please see following section for more details. For basic idea of how message is encapsulated see following example.

In this example a response for 'Production' dataflow is returned. Please see, that the actual response is an XML document encoded in the CDATA section. This is what you **receive** when the request is valid.

```
<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://www.basse.eu/information-service-
0.1/IInformationService/GetDataResponse</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>2015-06-29T15:35:00.487Z</u:Created>
        <u:Expires>2015-06-29T15:40:00.487Z</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">
    <GetDataResponse xmlns="http://www.basse.eu/information-service-1.0">
      <GetDataResult>
        <Content><![CDATA[<?xml version="1.0" encoding="utf-8"?>
<ValidatedDataForSettlementForAggregator
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="un:unece:260:data:EEM-
ValidatedDataForSettlementForAggregator">
      .....
    </ValidatedDataForSettlementForAggregator>
  </Content>
</GetDataResult>
</GetDataResponse>
</s:Body>
```



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

3.1.3 Supported Data Flows

The table below describes.

- *Name and Description* of the Data Flow supported by Information Service
- *Format* of document that is returned by the Information Service
- *Format* of the request document that is needed
- Available *Selection Parameters* which a Market Participant can use when querying the Information Service.

Note that the below examples of requests and responses may differ from each other.
These examples do not include all the headers required to send a message.

Table 1 Information Service data flows

Data Flow	Description	Counterparty / System	Result Format	More information
Bilateral Trades	Hourly/aggregated values of Bilateral Trade	BRP	ENTSO-E ESS Schedule Document v4r1	Chapter 3.1.3.1
PX Market Trades	Hourly/aggregated values of PX Market Trade	BRP, NPS	ENTSO-E ESS Schedule Document v4r1	Chapter 3.1.3.2
PX Market Flows	Hourly/aggregated values of PX Market Flow	BRP, NPS	ENTSO-E ESS Schedule Document v4r1	Chapter 3.1.3.3
MGA Exchanges	Hourly/aggregated values of MGA Exchanges.	DSO	NEG (eBIX® based) Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)	Chapter 3.1.3.4
MGA Exchange Trades	Hourly/aggregated values of MGA Exchange Trades	BRP, RE	ENTSO-E ESS Schedule Document	Chapter 3.1.3.5
Consumption	Hourly/aggregated values of Consumption	BRP, DSO	NEG (eBIX® based) Aggregated Data per MGA for Settlement Responsible (E31, E44)	Chapter 3.1.3.6
Production	Hourly/aggregated values of Production	BRP, DSO	NEG (eBIX® based) Validated Data for Settlement for Aggregator (E66, E44)	Chapter 3.1.3.7

eSett

2022-05-11

Public

Data Flow	Description	Counterparty / System	Result Format	More information
Production Plan	Hourly/aggregated values of Production Plans	BRP	ENTSO-E ERRP Planned Resource Schedule Document v5r0	Chapter 3.1.3.8
Activated Reserves	Hourly/aggregated values of Activated Reserves	BRP	NEG (based on ENTSO-E ERRP) Reserve allocation result document	Chapter 3.1.3.9
Imbalance Adjustment	Hourly/aggregated values of Imbalance Adjustment	BRP	ENTSO-E ERRP Reserve Allocation Result Document	Chapter 3.1.3.10
Prices	Hourly/aggregated values of Prices that are used for settlement	BRP, DSO, NPS	NEG (based on ENTSO-E ECAN) Publication Document	Chapter 3.1.3.11
Consumption Imbalance	Hourly/aggregated values of all settlement results – Consumption Imbalance (volumes, amounts, ...)	BRP	ENTSO-E Energy Account Report Document (EAR) v1r2	Chapter 3.1.3.12
Production Imbalance	Hourly/aggregated values of all settlement results – Production Imbalance (volumes, amounts, ...)	BRP	ENTSO-E Energy Account Report Document (EAR) v1r2	Chapter 3.1.3.13
Imbalance	Hourly/aggregated values of all settlement results – Imbalance (volumes, amounts, ...)	BRP	ENTSO-E Energy Account Report Document (EAR) v1r2	Chapter 3.1.3.14
MGA Imbalance	Hourly/aggregated values of all settlement results – MGA Imbalance (volumes, amounts, ...)	BRP, DSO	ENTSO-E Energy Account Report Document (EAR) v1r2	Chapter 3.1.3.15

eSett

2022-05-11

Public

Data Flow	Description	Counterparty / System	Result Format	More information
Production per Production Unit Type and MGA	Hourly/aggregated values of production per Production Unit Type and MGA	TSO	Basse Time Series Document	Chapter 3.1.3.16
MGA-MBA Relations	Service provides MGA-MBA relations in country specified in the request.	DSO, TSO, BRP, RE	NBS BRS for Master Data v1r8A - 20180606 (Ediel.org)	Chapter 3.1.3.17
Capacity Reserves	Hourly values of Capacity Reserves	BRP	ENTSO-E ERRP Reserve Allocation Result Document	Chapter 3.1.3.18
Merged Production		RE, BRP, DSO	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production	Chapter 3.1.3.19

eSett

2022-05-11

Public

3.1.3.1 *Bilateral Trades*

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"BIT"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" – for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"InBRP" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of IN BRP of Bilateral Trade
"OutBRP" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of OUT BRP of Bilateral Trade
"AgreementID" Optional	Agreement ID of Bilateral Trade. 1 "1" – for Bilateral Trades only between BRPs 2 ID Number – for Bilateral Trades between Retailers
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Response example

```

<?xml version="1.0" encoding="utf-8"?>
<ScheduleDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="urn:entsoe.eu:wgedi:ess:scheduledocument:4:1">
  <DocumentIdentification v="INFS-BITI-1" />
  <DocumentVersion v="1" />
  <DocumentType v="A01" />
  <ProcessType v="Z05" />

```

eSett

2022-05-11

Public

```
<SenderIdIdentification v="44X-00000000004B" codingScheme="A01" />
<SenderRole v="A05" />
<ReceiverIdentification v="BRP1" codingScheme="A01" />
<ReceiverRole v="A08" />
<CreationDateTime v="2015-12-10T12:00Z" />
<ScheduleTimeInterval v="2015-08-14T22:00Z/2015-11-10T22:00Z" />
<Domain v="10Y1001A1001A91G" codingScheme="A01" />
<ScheduleTimeSeries>
  <SendersTimeSeriesIdentification v="v1" />
  <SendersTimeSeriesVersion v="1" />
  <BusinessType v="A08" />
  <Product v="8716867000030" />
  <ObjectAggregation v="A01" />
  <InArea v="MBA" codingScheme="A01" />
  <OutArea v="MBA" codingScheme="A01" />
  <InParty v="BRP2" codingScheme="A01" />
  <OutParty v="BRP1" codingScheme="A01" />
  <CapacityAgreementIdentification v="1" />
  <MeasurementUnit v="MWH" />
  <Period>
    <TimeInterval v="2015-09-10T15:00Z/2015-09-10T17:00Z" />
    <Resolution v="PT1H" />
    <Interval>
      <Pos v="1" />
      <Qty v="3" />
    </Interval>
    <Interval>
      <Pos v="2" />
      <Qty v="5" />
    </Interval>
  </Period>
</ScheduleTimeSeries>
</ScheduleDocument>
```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0"
xmlns:urn="urn:entsoe.eu:wgedi:components">

  <soap:Header/>

  <soap:Body>
    <inf:GetData>
      <inf:request >
        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-07-20T00:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="BIT"/>
        </urn:RequestComponent>
        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2015-08-14T22:00:00Z/2015-11-
10T22:00:00Z"/>
        </urn:RequestComponent>
        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeResolution"/>
          <urn:RequestedAttributeValue v="PT1H"/>
        </urn:RequestComponent>

      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

3.1.3.2 PX Market Trades

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"PXT"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"PartyBRP" - for PX Market Trades linked to BRPs "PartyRE" – for PX Market Trades linked to Res Optional	PARTY CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired party. In case of PX Market Trade it might be BRP or Retailer.
"ProcessType"	"A01" – for Elspot trades "A19" – for Elbas trades "Z15" – for External trades (Trades outside the Capacity Calculation Region)
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Response example

```
<?xml version="1.0" encoding="utf-16"?>

<ScheduleDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:entsoe.eu:wgedi:ess:scheduledocument:4:1">

  <DocumentIdentification v="INFS-PXTI-1" />

  <DocumentVersion v="1" />

  <DocumentType v="A01" />

  <ProcessType v="A01" />

  <ScheduleClassificationType v="A02" />
```

eSett

2022-05-11

Public

```
<SenderIdIdentification v="44X-00000000004B" codingScheme="A01" />
<SenderRole v="A05" />
<ReceiverIdentification v="BRP1" codingScheme="A01" />
<ReceiverRole v="A08" />
<CreationDateTime v="2016-05-03T07:18:52.5688577Z" />
<ScheduleTimeInterval v="2016-01-01T22:00:00Z/2016-06-22T22:00:00Z" />
<Domain v="10Y1001A1001A91G" codingScheme="A01" />
<SubjectParty v="BRP1" codingScheme="A01" />
<SubjectRole v="A08" />
<ScheduleTimeSeries>
  <SendersTimeSeriesIdentification v="PXT1" />
  <SendersTimeSeriesVersion v="1" />
  <BusinessType v="A08" />
  <Product v="8716867000030" />
  <ObjectAggregation v="A01" />
  <InArea v="MGA1" codingScheme="A01" />
  <InParty v="RE1" codingScheme="A01" />
  <MeasurementUnit v="MWH" />
  <Period>
    <TimeInterval v="2016-04-21T22:00:00Z/2016-04-22T22:00:00Z" />
    <Resolution v="PT1H" />
    <Interval>
      <Pos v="1" />
      <Qty v="5" />
    </Interval>
    ...
    <Interval>
      <Pos v="24" />
      <Qty v="120" />
    </Interval>
  </Period>
</ScheduleTimeSeries>
</ScheduleDocument>
```


Request example

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0"
xmlns:urn="urn:entsoe.eu:wgedi:components">

  <soap:Header/>

  <soap:Body>

    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="INFS-PXTI-1"/>

        <urn:DocumentType v="A25"/>

        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>

        <urn:SenderRole v="A08"/>

        <urn:ReceiverIdentification v=" " codingScheme="A01"/>

        <urn:ReceiverRole v="A05"/>

        <urn:CreationDateTime v="2015-07-20T00:00:00Z"/>

        <urn:RequestComponent>

          <urn:RequestedAttribute v="Dataflow"/>

          <urn:RequestedAttributeValue v="PXT"/>

        </urn:RequestComponent>

        <urn:RequestComponent>

          <urn:RequestedAttribute v="TimeInterval"/>

          <urn:RequestedAttributeValue v="2015-08-31T22:00:00Z/2015-11-
01T22:00:00Z"/>

        </urn:RequestComponent>

        <urn:RequestComponent>

          <urn:RequestedAttribute v="TimeResolution"/>

          <urn:RequestedAttributeValue v="PT1H"/>

        </urn:RequestComponent>

        <urn:RequestComponent>

          <urn:RequestedAttribute v="PXTrader"/>

          <urn:RequestedAttributeValue v="BRP01" codingScheme="A01"/>

        </urn:RequestComponent>

        <urn:RequestComponent>

          <urn:RequestedAttribute v="ProcessType"/>

          <urn:RequestedAttributeValue v="A01"/>

        </urn:RequestComponent>

      </inf:request>

    </inf:GetData>

  </soap:Body>

</soap:Envelope>
```

```

        </urn:RequestComponent>

        <urn:RequestComponent>
            <urn:RequestedAttribute v="MBA"/>
            <urn:RequestedAttributeValue v="FI1" codingScheme="A01"/>
        </urn:RequestComponent>

        <urn:RequestComponent>
            <urn:RequestedAttribute v="PortfolioID"/>
            <urn:RequestedAttributeValue v="333124"/>
        </urn:RequestComponent>

    </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.3 PX Market Flows

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"PXF"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"ProcessType"	"A01" – for Elspot trades "A19" – for Elbas trades
"InArea" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
"OutArea"	CODE – in v attribute

eSett

2022-05-11

Public

Optional	CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
----------	--

Response example

```
<?xml version="1.0" encoding="utf-8"?>
<ScheduleDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="urn:entsoe.eu:wgedi:ess:scheduledocument:4:1">
  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A55" />
  <ProcessType v="A01" />
  <ScheduleClassificationType v="A02" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP1" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <CreationDateTime v="2015-12-10T14:00Z" />
  <ScheduleTimeInterval v="2015-10-01T00:00Z/2015-11-21T23:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <ScheduleTimeSeries>
    <SendersTimeSeriesIdentification v="PXF16" />
    <SendersTimeSeriesVersion v="1" />
    <BusinessType v="A66" />
    <Product v="8716867000030" />
    <ObjectAggregation v="A01" />
    <InArea v="MBA1" codingScheme="A01" />
    <OutArea v="MBA2" codingScheme="A01" />
    <MeasurementUnit v="MWH" />
    <Period>
      <TimeInterval v="2015-10-21T22:00Z/2015-10-27T22:00Z" />
      <Resolution v="PT1H" />
      <Interval>
        <Pos v="1" />
        <Qty v="1" />
      </Interval>
    </Period>
  </ScheduleTimeSeries>
</ScheduleDocument>
```

```

...
<Interval>
  <Pos v="144" />
  <Qty v="1" />
</Interval>
</Period>
</ScheduleTimeSeries>
</ScheduleDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">
        <urn:DocumentIdentification v=""/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="PXF" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>

          <urn:RequestedAttributeValue v="2015-10-01T00:00:00Z/2015-11-21T23:00:00Z" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="InArea"/>
  <urn:RequestedAttributeValue v="SE1" codingScheme="A01"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="OutArea"/>
  <urn:RequestedAttributeValue v="FI1" codingScheme="A01"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="ProcessType"/>
  <urn:RequestedAttributeValue v="A01" />
</urn:RequestComponent>
</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.4 MGA Exchanges

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"MGX"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data

	"P1D" – for daily aggregated data "PT1H", "PT60M" – for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"InMGA" Optional	PARTY CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of In MGA from MGA Oriented Border
"OutMGA" Optional	PARTY CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of Out MGA from MGA Oriented Border

Response example

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

<AggregatedDataPerNeighboringGridForSettlementForSettlementResponsible
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="un:unece:260:data:EEM-AggregatedDataPerNeighboringGridForSettlementForSettlementResponsible">

  <Header>

    <Identification>test</Identification>

    <DocumentType listAgencyIdentifier="260">E31</DocumentType>

    <Creation>2016-02-01T14:00:00Z</Creation>

    <SenderEnergyParty>

      <Identification schemeAgencyIdentifier="305"> </Identification>

    </SenderEnergyParty>

    <RecipientEnergyParty>

      <Identification schemeAgencyIdentifier="305">DSO</Identification>

    </RecipientEnergyParty>

  </Header>

  <ProcessEnergyContext>

    <EnergyBusinessProcess listAgencyIdentifier="260">E44</EnergyBusinessProcess>

    <EnergyBusinessProcessRole listAgencyIdentifier="330">DDX</EnergyBusinessProcessRole>

    <EnergyIndustryClassification listAgencyIdentifier="330">23</EnergyIndustryClassification>

  </ProcessEnergyContext>
```

```

<PayloadEnergyTimeSeries>
  <Identification>1</Identification>
  <RegistrationDateTime>0001-01-01T00:00:00</RegistrationDateTime>
  <ObservationPeriodTimeSeriesPeriod>
    <ResolutionDuration>PT1H</ResolutionDuration>
    <Start>2015-08-31T22:00:00Z</Start>
    <End>2015-09-01T22:00:00Z</End>
  </ObservationPeriodTimeSeriesPeriod>
  <ProductIncludedProductCharacteristic>
    <Identification schemeAgencyIdentifier="9">8716867000030</Identification>
    <UnitType listAgencyIdentifier="330">MWH</UnitType>
  </ProductIncludedProductCharacteristic>
  <MPDetailMeasurementMeteringPointCharacteristic>
    <MeteringPointType listAgencyIdentifier="260">E20</MeteringPointType>
  </MPDetailMeasurementMeteringPointCharacteristic>
  <InAreaUsedDomainLocation>
    <Identification schemeAgencyIdentifier="305">MGA02</Identification>
  </InAreaUsedDomainLocation>
  <OutAreaUsedDomainLocation>
    <Identification schemeAgencyIdentifier="305">MGA01</Identification>
  </OutAreaUsedDomainLocation>
  <ObservationIntervalObservationPeriod>
    <Sequence>1</Sequence>
    <ObservationDetailEnergyObservation>
      <EnergyQuantity>1</EnergyQuantity>
    </ObservationDetailEnergyObservation>
  </ObservationIntervalObservationPeriod>
  <ObservationIntervalObservationPeriod>
    ...
    <Sequence>264</Sequence>
    <ObservationDetailEnergyObservation>
      <EnergyQuantity>1</EnergyQuantity>
    </ObservationDetailEnergyObservation>
  </ObservationIntervalObservationPeriod>

```

eSett

2022-05-11

Public

```

</PayloadEnergyTimeSeries>
</AggregatedDataPerNeighboringGridForSettlementForSettlementResponsible>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="DSO01" codingScheme="A01"/>
        <urn:SenderRole v="A18"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="MgaExchanges" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2015-08-10T00:00:00Z/2015-11-21T23:00:00Z" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeResolution"/>
          <urn:RequestedAttributeValue v="PT1H" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```



```

    </inf:request>
  </inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.5 MGA Exchange Trades

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"MGT"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H" – for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00:00Z/2015-02-01T02:00:00Z" system will return data for January 2015 and February 2015.
"InRE" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of In Retailer of MGA Exchange Trade
"OutRE" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of Out Retailer of MGA Exchange Trade
"InMGA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of In MGA of MGA Exchange Trade
"OutMGA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of Out MGA of MGA Exchange Trade

Response example

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

```

<ScheduleDocument xsi:schemaLocation="urn:entsoe.eu:wgedi:ess:scheduledocument:4:1 urn-entsoe-eu-wgedi-
ess-scheduledocument-4-1.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:entsoe.eu:wgedi:ess:scheduledocument:4:1">

  <DocumentIdentification v="INFS-MGT-1" />
  <DocumentVersion v="1" />
  <DocumentType v="A01" />
  <ProcessType v="Z05" />
  <ScheduleClassificationType v="A02" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP01" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <CreationDateTime v="2018-10-17T11:34:46Z" />
  <ScheduleTimeInterval v="2018-07-01T00:00Z/2018-07-02T00:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <ScheduleTimeSeries>
    <SendersTimeSeriesIdentification v="MnmXCA0ccESpFXO6T2YruA" />
    <SendersTimeSeriesVersion v="1" />
    <BusinessType v="A03" />
    <Product v="8716867000030" />
    <ObjectAggregation v="A01" />
    <InArea v="MGA04" codingScheme="A01" />
    <OutArea v="MGA03" codingScheme="A01" />
    <InParty v="RE04" codingScheme="A01" />
    <OutParty v="RE03" codingScheme="A01" />
    <MeasurementUnit v="MWH" />
    <Period>
      <TimeInterval v="2018-07-01T00:00Z/2018-07-02T00:00Z" />
      <Resolution v="PT1H" />
      <Interval>
        <Pos v="1" />
        <Qty v="5" />
      </Interval>
    </Period>
  </ScheduleTimeSeries>
</ScheduleDocument>

```

```
<Pos v="2" />
<Qty v="10" />
</Interval>
<Interval>
  <Pos v="3" />
  <Qty v="15" />
</Interval>
<Interval>
  <Pos v="4" />
  <Qty v="20" />
</Interval>
<Interval>
  <Pos v="5" />
  <Qty v="25" />
</Interval>
<Interval>
  <Pos v="6" />
  <Qty v="30" />
</Interval>
<Interval>
  <Pos v="7" />
  <Qty v="35" />
</Interval>
<Interval>
  <Pos v="8" />
  <Qty v="40" />
</Interval>
<Interval>
  <Pos v="9" />
  <Qty v="45" />
</Interval>
<Interval>
  <Pos v="10" />
  <Qty v="50" />
```

```
</Interval>
<Interval>
  <Pos v="11" />
  <Qty v="55" />
</Interval>
<Interval>
  <Pos v="12" />
  <Qty v="60" />
</Interval>
<Interval>
  <Pos v="13" />
  <Qty v="65" />
</Interval>
<Interval>
  <Pos v="14" />
  <Qty v="70" />
</Interval>
<Interval>
  <Pos v="15" />
  <Qty v="75" />
</Interval>
<Interval>
  <Pos v="16" />
  <Qty v="80" />
</Interval>
<Interval>
  <Pos v="17" />
  <Qty v="85" />
</Interval>
<Interval>
  <Pos v="18" />
  <Qty v="90" />
</Interval>
<Interval>
```

```

    <Pos v="19" />
    <Qty v="95" />
  </Interval>
  <Interval>
    <Pos v="20" />
    <Qty v="100" />
  </Interval>
  <Interval>
    <Pos v="21" />
    <Qty v="105" />
  </Interval>
  <Interval>
    <Pos v="22" />
    <Qty v="110" />
  </Interval>
  <Interval>
    <Pos v="23" />
    <Qty v="115" />
  </Interval>
  <Interval>
    <Pos v="24" />
    <Qty v="120" />
  </Interval>
</Period>
</ScheduleTimeSeries>
</ScheduleDocument>

```

3.1.3.6 Consumption

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"REC"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data

eSett

2022-05-11

Public

	"P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"PartyBRP" - for Consumption linked to BRPs "PartyRE" – for Consumption linked to Res Optional	PARTY CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired party. In case of Consumption it might be BRP or Retailer.
"MGA" Optional	MGA CODE – in v attribute MGA CODING SCHEME – in CodingScheme attribute Code and Coding scheme of MGA
"SettlementMethodType" Optional	"E01" – for Profiled "E02" – for Non-profiled
"BusinessType" Optional	"A04" – for Consumption (total consumption) "A07" – for Net production/consumption "A15" – for Losses "A72" – for Interruptible Consumption "B27" – for Pumped "B28" – for Large installation consumption "B36" – for Large installation consumption (Only used in Finland)

Response example

```
<?xml version="1.0" encoding="utf-8"?>
<AggregatedDataPerMGAForSettlementForSettlementResponsible
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="un:unece:260:data:EEM-AggregatedDataPerMGAForSettlementForSettlementResponsible">
  <Header>
    <Identification>INFS-RECI-1</Identification>
    <DocumentType listAgencyIdentifier="260">E31</DocumentType>
    <Creation>2015-12-10T12:00Z</Creation>
    <SenderEnergyParty>
```

```

    <Identification schemeAgencyIdentifier="305"> </Identification>
  </SenderEnergyParty>
  <RecipientEnergyParty>
    <Identification schemeAgencyIdentifier="305">DSO</Identification>
  </RecipientEnergyParty>
</Header>
<ProcessEnergyContext>
  <EnergyBusinessProcess listAgencyIdentifier="260">E44</EnergyBusinessProcess>
  <EnergyBusinessProcessRole listAgencyIdentifier="330">DDX</EnergyBusinessProcessRole>
  <EnergyIndustryClassification listAgencyIdentifier="330">23</EnergyIndustryClassification>
</ProcessEnergyContext>
<PayloadEnergyTimeSeries>
  <Identification>CNS62</Identification>
  <RegistrationDateTime>0001-01-01T00:00:00</RegistrationDateTime>
  <ObservationPeriodTimeSeriesPeriod>
    <ResolutionDuration>PT1H</ResolutionDuration>
    <Start>2015-08-31T22:00Z</Start>
    <End>2015-09-03T22:00Z</End>
  </ObservationPeriodTimeSeriesPeriod>
  <BalanceResponsibleInvolvedEnergyParty>
    <Identification schemeAgencyIdentifier="305">RE</Identification>
  </BalanceResponsibleInvolvedEnergyParty>
  <BalanceSupplierInvolvedEnergyParty>
    <Identification schemeAgencyIdentifier="305">BRP</Identification>
  </BalanceSupplierInvolvedEnergyParty>
  <ProductIncludedProductCharacteristic>
    <Identification schemeAgencyIdentifier="9">8716867000030</Identification>
    <UnitType listAgencyIdentifier="330">MWH</UnitType>
  </ProductIncludedProductCharacteristic>
  <MPDetailMeasurementMeteringPointCharacteristic>
    <MeteringPointType listAgencyIdentifier="260">E17</MeteringPointType>
    <SettlementMethodType listAgencyIdentifier="260">E02</SettlementMethodType>
    <BusinessType listAgencyIdentifier="330">A04</BusinessType>
  </MPDetailMeasurementMeteringPointCharacteristic>

```

```

<MeteringGridAreaUsedDomainLocation>
  <Identification schemeAgencyIdentifier="305">MGA</Identification>
</MeteringGridAreaUsedDomainLocation>
<ObservationIntervalObservationPeriod>
  <Sequence>1</Sequence>
  <ObservationDetailEnergyObservation>
    <EnergyQuantity>0</EnergyQuantity>
  </ObservationDetailEnergyObservation>
</ObservationIntervalObservationPeriod>
...
<Sequence>72</Sequence>
<ObservationDetailEnergyObservation>
  <EnergyQuantity>0</EnergyQuantity>
</ObservationDetailEnergyObservation>
</ObservationIntervalObservationPeriod>
</PayloadEnergyTimeSeries>
</AggregatedDataPerMGAForSettlementForSettlementResponsible>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request >
        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="DSO01" codingScheme="A01"/>
        <urn:SenderRole v="A18"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-07-20T00:00:00Z"/>
        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="REC"/>

```



```

</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2015-11-11T22:00:00Z/2015-12-12T22:00:00Z"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H"/>
</urn:RequestComponent>
</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.7 Production

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"RPM"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"ProductionUnit" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired production unit.

Response example

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

```

<ValidatedDataForSettlementForAggregator xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="un:unece:260:data:EEM-
ValidatedDataForSettlementForAggregator">
  <Header>
    <Identification>1</Identification>
    <DocumentType listAgencyIdentifier="260">E66</DocumentType>
    <Creation>2015-12-10T12:00Z</Creation>
    <SenderEnergyParty>
      <Identification schemeAgencyIdentifier="305"> </Identification>
    </SenderEnergyParty>
    <RecipientEnergyParty>
      <Identification schemeAgencyIdentifier="305">DSO</Identification>
    </RecipientEnergyParty>
  </Header>
  <ProcessEnergyContext>
    <EnergyBusinessProcess listAgencyIdentifier="260">E44</EnergyBusinessProcess>
    <EnergyBusinessProcessRole listAgencyIdentifier="330">DDX</EnergyBusinessProcessRole>
    <EnergyIndustryClassification listAgencyIdentifier="330">23</EnergyIndustryClassification>
  </ProcessEnergyContext>
  <PayloadEnergyTimeSeries>
    <Identification>PROD1</Identification>
    <RegistrationDateTime>0001-01-01T00:00:00</RegistrationDateTime>
    <ObservationPeriodTimeSeriesPeriod>
      <ResolutionDuration>PT1H</ResolutionDuration>
      <Start>2015-10-18T00:00Z</Start>
      <End>2015-10-20T00:00Z</End>
    </ObservationPeriodTimeSeriesPeriod>
    <ProductIncludedProductCharacteristic>
      <Identification schemeAgencyIdentifier="9">8716867000030</Identification>
      <UnitType listAgencyIdentifier="330">MWH</UnitType>
    </ProductIncludedProductCharacteristic>
    <MPDetailMeasurementMeteringPointCharacteristic>
      <MeteringPointType listAgencyIdentifier="260">E18</MeteringPointType>
    </MPDetailMeasurementMeteringPointCharacteristic>
    <MeteringPointUsedDomainLocation>

```

```

    <Identification schemeAgencyIdentifier="305">PU</Identification>
  </MeteringPointUsedDomainLocation>
  <ObservationIntervalObservationPeriod>
    <Sequence>1</Sequence>
    <ObservationDetailEnergyObservation>
      <EnergyQuantity>240</EnergyQuantity>
      <QuantityQuality listAgencyIdentifier="330">21</QuantityQuality>
    </ObservationDetailEnergyObservation>
  </ObservationIntervalObservationPeriod>
  <ObservationIntervalObservationPeriod>
    <Sequence>2</Sequence>
    <ObservationDetailEnergyObservation>
      <EnergyQuantity>240</EnergyQuantity>
      <QuantityQuality listAgencyIdentifier="330">21</QuantityQuality>
    </ObservationDetailEnergyObservation>
  </ObservationIntervalObservationPeriod>
</PayloadEnergyTimeSeries>
</ValidatedDataForSettlementForAggregator>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="DSO01" codingScheme="A01"/>
        <urn:SenderRole v="A18"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```

<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow"/>
  <urn:RequestedAttributeValue v="Production" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2015-10-16T22:00:00Z/2015-10-19T23:00:00Z" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="P1D" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="ProductionUnit"/>
  <urn:RequestedAttributeValue v="PU01" codingScheme="A01"/>
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.8 Production Plan

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"PRP"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data

	"PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"RegulationObject" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired Regulation Object.
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Response example

```

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

<PlannedResourceScheduleDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:entsoe.eu:wgedi:errp:plannedresourcescheduledocument:5:0">

  <DocumentIdentification v="1" />
  <DocumentVersion v="1" />
  <DocumentType v="A14" />
  <ProcessType v="A17" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <CreationDateTime v="2015-12-10T12:00Z" />
  <TimePeriodCovered v="2014-01-01T00:00Z/2019-09-21T00:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <PlannedResourceTimeSeries>
    <TimeSeriesIdentification v="PP61" />
    <BusinessType v="A01" />
    <Product v="8716867000030" />
    <ConnectingArea v="MBA" codingScheme="A01" />
    <ResourceObject v="RO" codingScheme="A01" />
    <ResourceProvider v="BRP" codingScheme="A01" />
  </PlannedResourceTimeSeries>
</PlannedResourceScheduleDocument>

```

```

<MeasurementUnit v="MWH" />
<ObjectAggregation v="A06" />
<Period>
  <TimeInterval v="2015-10-18T22:00Z/2015-12-09T23:00Z" />
  <Resolution v="P1D" />
  <Interval>
    <Pos v="1" />
    <Qty v="1" />
  </Interval>
  ...
  <Interval>
    <Pos v="52" />
    <Qty v="1" />
  </Interval>
</Period>
</PlannedResourceTimeSeries>
</PlannedResourceScheduleDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:inf="http://www.basse.eu/information-service-1.0"
  xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="PRPI-1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```

    <urn:RequestComponent>
      <urn:RequestedAttribute v="Dataflow"/>
      <urn:RequestedAttributeValue v="PRP" />
    </urn:RequestComponent>

    <urn:RequestComponent>
      <urn:RequestedAttribute v="TimeInterval"/>
      <urn:RequestedAttributeValue v="2014-01-01T00:00:00Z/2019-09-21T23:00:00Z" />
    </urn:RequestComponent>

    <urn:RequestComponent>
      <urn:RequestedAttribute v="TimeResolution"/>
      <urn:RequestedAttributeValue v="P1D" />
    </urn:RequestComponent>

    <urn:RequestComponent>
      <urn:RequestedAttribute v="MBA"/>
      <urn:RequestedAttributeValue v="FI1" codingScheme="A01"/>
    </urn:RequestComponent>

    <urn:RequestComponent>
      <urn:RequestedAttribute v="RegulationObject"/>
      <urn:RequestedAttributeValue v="RO01" codingScheme="A01"/>
    </urn:RequestComponent>

  </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.9 Activated Reserves

RequestedAttribute

RequestedAttributeValue

eSett

2022-05-11

Public

"DataFlow"	"ACR"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"BusinessType"	Business type is mandatory. Response may contain activated reserves of one business type only.
"ReasonCode" Optional	Seek NBS BRS for TSO-MO at Nordic Balance Settlement (NBS) – Ediel.org at chapter 4.3.4 Dependency matrix for different combinations you are able to request.
"RegulationObject" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired Regulation Object.
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Response example

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

<ReserveAllocationResultDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel.org:neg:errp:reserveallocationresultdocument:1:0">

  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A38" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <ReceiverRole v="A08" />
```


eSett

2022-05-11

Public

```

<CreationDateTime v="2015-12-10T12:00Z" />
<ReserveBidTimeInterval v="2015-03-01T22:00Z/2015-11-02T22:00Z" />
<Domain v="10Y1001A1001A91G" codingScheme="A01" />
<AllocationTimeSeries>
  <TimeSeriesIdentification v="v1" />
  <TenderingParty v="BRP" codingScheme="A01" />
  <BusinessType v="A12" />
  <AcquiringArea v="MBA" codingScheme="A01" />
  <MeasureUnitQuantity v="MWH" />
  <Currency v="EUR" />
  <MeasureUnitPrice v="MWH" />
  <ReserveObject v="RO" codingScheme="A01" />
  <Direction v="A01" />
  <Period>
    <TimeInterval v="2015-10-20T22:00Z/2015-10-27T22:00Z" />
    <Resolution v="PT1H" />
    <Interval>
      <Pos v="1" />
      <Qty v="1" />
      <SettlementAmount v="1" />
    </Interval>
    ...
  </Interval>
  <Interval>
    <Pos v="168" />
    <Qty v="1" />
    <SettlementAmount v="1" />
  </Interval>
</Period>
<Period>
  <TimeInterval v="2015-10-27T23:00Z/2015-11-02T22:00Z" />
  <Resolution v="PT1H" />
</Interval>
  <Pos v="1" />

```

```

    <Qty v="1" />
    <SettlementAmount v="1" />
  </Interval>
  ...
  <Interval>
    <Pos v="143" />
    <Qty v="1" />
    <SettlementAmount v="1" />
  </Interval>
</Period>
<Reason>
  <ReasonCode v="Z30" />
</Reason>
</AllocationTimeSeries>
</ReserveAllocationResultDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">
        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-07-20T00:00:00Z"/>
        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="ACR" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```

    <urn:RequestComponent>
      <urn:RequestedAttribute v="TimeInterval"/>
      <urn:RequestedAttributeValue v="2015-03-01T22:00:00Z/2015-11-02T22:00:00Z" />
    </urn:RequestComponent>
    <urn:RequestComponent>
      <urn:RequestedAttribute v="TimeResolution"/>
      <urn:RequestedAttributeValue v="PT1H" />
    </urn:RequestComponent>

  </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.10 Imbalance Adjustment

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"IBA"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"RegulationObject" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired Regulation Object.
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Response example

```

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

<ReserveAllocationResultDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel.org:neg:errp:reserveallocationresultdocument:1:0">

  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A38" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <CreationDateTime v="2015-12-10T12:00Z" />
  <ReserveBidTimeInterval v="2015-09-01T00:00Z/2015-10-21T23:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <AllocationTimeSeries>
    <TimeSeriesIdentification v="IA61" />
    <TenderingParty v="BRP" codingScheme="A01" />
    <AcquiringArea v="MBA" codingScheme="A01" />
    <MeasureUnitQuantity v="MWH" />
    <Currency v="EUR" />
    <MeasureUnitPrice v="MWH" />
    <ReserveObject v="RO" codingScheme="A01" />
    <Direction v="A01" />
    <Period>
      <TimeInterval v="2015-09-01T00:00Z/2015-10-21T23:00Z" />
      <Resolution v="PT1H" />
      <Interval>
        <Pos v="1" />
        <Qty v="0" />
        <SettlementAmount v="0" />
      </Interval>
      ...
      <Interval>
        <Pos v="1223" />

```

```

    <Qty v="1" />
    <SettlementAmount v="1" />
  </Interval>
</Period>
</AllocationTimeSeries>
</ReserveAllocationResultDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request >

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="ImbalanceAdjustment" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2015-09-01T00:00:00Z/2015-10-21T23:00:00Z" />
        </urn:RequestComponent>

        <urn:RequestComponent>

```

```

        <urn:RequestedAttribute v="TimeResolution"/>
        <urn:RequestedAttributeValue v="PT1H" />
    </urn:RequestComponent>

    </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.11 Prices

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"REP"
"TimeResolution"	"PT1H", "PT60M" - for hourly data <i>Only hourly data will be available for Prices</i>
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ <i>Due to introduction of Single Balance Settlement model into the system certain business types will not be available for interval before the transition date (Z74, Z75). Some others will not be available after the transition date (B23, B24, B25). Transition date to Single Balance model is 31.10.2021</i>
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
"BusinessType"	"A62" – stands for Spot Price "B23" – stands for Consumption Imbalance Price "B21" – stands for Balance Down Regulation Price "B20" – stands for Balance Up Regulation Price "B22" – stands for Main Direction "B24" – stands for Production Sales Imbalance Price "B25" – stands for Production Purchase Imbalance Price "Z74" – stands for Imbalance Sales Price "Z75" – stands for Imbalance Purchase Price "A06" – stands for Day-ahead NSL Price "A06" – stands for Day-ahead NSL Price

BusinessType can be listed in the request file multiple times. For example, if market participant requests Spot Prices and Consumption Imbalance Prices then the BusinessType will be listed twice, first with "A62" value and second with "Z58" value.

"Currency"	"EUR" – stands for EURO "NOK" – stands for Norwegian Krone "SEK" – stands for Swedish Krona "DKK" – stands for Danish Krone
------------	---

Response example

```
<?xml version="1.0" encoding="utf-8"?>
<PublicationDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="urn:ediel.org:neg:ecan:publicationdocument:1:0">
  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A44" />
  <ProcessType v="A30" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <CreationDateTime v="2015-12-10T12:00Z" />
  <PublicationTimeInterval v="2014-01-01T00:00Z/2019-09-21T23:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <PublicationTimeSeries>
    <TimeSeriesIdentification v="v1" />
    <BusinessType v="A62" />
    <InArea v="MBA" codingScheme="A01" />
    <OutArea v="MBA" codingScheme="A01" />
    <Currency v="EUR" />
    <MeasureUnitPrice v="MWH" />
  <Period>
    <TimeInterval v="2015-10-20T22:00Z/2015-10-27T22:00Z" />
    <Resolution v="PT1H" />
    <Interval>
      <Pos v="1" />
    </Interval>
  </Period>
</PublicationDocument>
```

```

    <Price v="1" />
  </Interval>
  ...
  <Interval>
    <Pos v="360" />
    <Price v="1" />
  </Interval>
</Period>
</PublicationTimeSeries>
</PublicationDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="Prices" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```



```

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2014-01-01T00:00:00Z/2019-09-21T23:00:00Z" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="MBA"/>
  <urn:RequestedAttributeValue v="FI1" codingScheme="A01"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="BusinessType"/>
  <urn:RequestedAttributeValue v="A62" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency"/>
  <urn:RequestedAttributeValue v="EUR" />
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.12 Consumption Imbalance

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"CIM"

eSett

2022-05-11

Public

"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015. Only data for period before transition point (31.10.2021) will be sent (further data will not be available due to Single Balance Settlement introduction into the system).
"BRP" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired BRP
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
"Currency"	<i>ISO Code of desired currency (EUR, NOK, SEK)</i> <i>Please note that default currency for settlement is EUR, amounts are recalculated to NOK and SEK using ECB rate, which can cause that in conclusion invoiced amount in NOK and SEK can slightly differ from amount provided by this DF.</i>

Response example

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

<EnergyAccountReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel.org:neg:esp:energyaccountreportddocument:1:0">

  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A12" />
  <DocumentStatus v="A01" />
  <ProcessType v="A06" />
```

eSett

2022-05-11

Public

```
<ClassificationType v="A02" />
<SenderIdentification v="44X-00000000004B" codingScheme="A01" />
<SenderRole v="A05" />
<ReceiverIdentification v="BRP" codingScheme="A01" />
<ReceiverRole v="A08" />
<DocumentDateTime v="2015-12-10T12:00Z" />
<AccountingPeriod v="2014-01-01T00:00Z/2019-09-21T00:00Z" />
<Domain v="10Y1001A1001A91G" codingScheme="A01" />
<AccountTimeSeries>
  <SendersTimeSeriesIdentification v="v1" />
  <BusinessType v="B15" />
  <Product v="8716867000030" />
  <ObjectAggregation v="A01" />
  <Area v="MBA" codingScheme="A01" />
  <Party v="BRP" codingScheme="A01" />
  <MeasurementUnit v="MWH" />
  <Currency v="EUR" />
  <Period>
    <TimeInterval v="2015-10-18T22:00Z/2015-12-10T23:00Z" />
    <Resolution v="P7D" />
    <AccountInterval>
      <Pos v="1" />
      <InQty v="0" />
      <OutQty v="0" />
      <SettlementAmount v="0" />
    </AccountInterval>
    ...
    <AccountInterval>
      <Pos v="31" />
      <InQty v="0" />
      <OutQty v="0" />
      <SettlementAmount v="0" />
    </AccountInterval>
  </Period>
```

```

</AccountTimeSeries>
</EnergyAccountReport>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="BRP01" codingScheme="A01"/>
        <urn:SenderRole v="A08"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="ConsumptionImbalance" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2014-01-01T00:00:00Z/2019-09-21T23:00:00Z" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeResolution"/>
          <urn:RequestedAttributeValue v="P7D" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```

<urn:RequestComponent>
  <urn:RequestedAttribute v="MBA"/>
  <urn:RequestedAttributeValue v="NO1" codingScheme="A01"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="BRP"/>
  <urn:RequestedAttributeValue v="BRP01" codingScheme="A01"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency"/>
  <urn:RequestedAttributeValue v="EUR" />
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.13 Production Imbalance

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"PIM"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.

	Only data for period before transition point (31.10.2021) will be sent (further data will not be available due to Single Balance Settlement introduction into the system).
“BRP” Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired BRP
“MBA” Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
“Currency”	<i>ISO Code of desired currency (EUR, NOK, SEK)</i> <i>Please note that default currency for settlement is EUR, amounts are recalculated to NOK and SEK using ECB rate, which can cause that in conclusion invoiced amount in NOK and SEK can slightly differ from amount provided by this DF.</i>

Response example

```
<?xml version="1.0" encoding="utf-8"?>
<EnergyAccountReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel:org:neg:esp:energyaccountreportddocument:1:0">
  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A12" />
  <DocumentStatus v="A01" />
  <ProcessType v="A06" />
  <ClassificationType v="A02" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <DocumentDateTime v="2015-12-10T12:00Z" />
  <AccountingPeriod v="2015-01-24T00:00Z/2016-08-21T23:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <AccountTimeSeries>
    <SendersTimeSeriesIdentification v="v1" />
    <BusinessType v="B14" />
  </AccountTimeSeries>
</EnergyAccountReport>
```

eSett

2022-05-11

Public

```

<Product v="8716867000030" />
<ObjectAggregation v="A01" />
<Area v="MBA" codingScheme="A01" />
<Party v="BRP" codingScheme="A01" />
<MeasurementUnit v="MWH" />
<Currency v="EUR" />
<Period>
  <TimeInterval v="2015-08-30T22:00Z/2015-12-09T23:00Z" />
  <Resolution v="PT1H" />
  <AccountInterval>
    <Pos v="1" />
    <InQty v="0" />
    <OutQty v="0" />
    <SettlementAmount v="0" />
  </AccountInterval>
  ...
  <AccountInterval>
    <Pos v="744" />
    <InQty v="0" />
    <OutQty v="0" />
    <SettlementAmount v="0" />
  </AccountInterval>
</Period>
</AccountTimeSeries>
</EnergyAccountReport>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

```

```
<urn:DocumentIdentification v="1"/>
<urn:DocumentType v="A25"/>
<urn:SenderIdentification v="BRP01" codingScheme="A01"/>
<urn:SenderRole v="A08"/>
<urn:ReceiverIdentification v=" " codingScheme="A01"/>
<urn:ReceiverRole v="A05"/>
<urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow"/>
  <urn:RequestedAttributeValue v="ProductionImbalance" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2015-10-24T00:00:00Z/2015-11-21T23:00:00Z" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency"/>
  <urn:RequestedAttributeValue v="EUR" codingScheme="A01"/>
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>
```


3.1.3.14 Imbalance

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"IM"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H" – for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00:00Z/2015-02-01T02:00:00Z" system will return data for January 2015 and February 2015. Only data for period after transition point will be sent (previous data will not be available yet).
"BRP" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired BRP
"MBA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA
"Currency"	<i>ISO Code of desired currency (EUR, NOK, SEK)</i> <i>Please note that default currency for settlement is EUR, amounts are recalculated to NOK and SEK using ECB rate, which can cause that in conclusion invoiced amount in NOK and SEK can slightly differ from amount provided by this DF.</i>

Response example

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

<EnergyAccountReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel.org:neg:esp:energyaccountreportddocument:1:0">

  <DocumentIdentification v="" />

  <DocumentVersion v="1" />

  <DocumentType v="A12" />

  <DocumentStatus v="A01" />

  <ProcessType v="A06" />
```

eSett

2022-05-11

Public

```
<ClassificationType v="A02" />
<SenderIdIdentification v="44X-00000000004B" codingScheme="A01" />
<SenderRole v="A05" />
<ReceiverIdentification v="BRP" codingScheme="A01" />
<ReceiverRole v="A08" />
<DocumentDateTime v="2015-12-10T12:00Z" />
<AccountingPeriod v="2015-01-24T00:00Z/2016-08-21T23:00Z" />
<Domain v="10Y1001A1001A91G" codingScheme="A01" />
<AccountTimeSeries>
  <SendersTimeSeriesIdentification v="v1" />
  <BusinessType v="B14" />
  <Product v="8716867000030" />
  <ObjectAggregation v="A01" />
  <Area v="MBA" codingScheme="A01" />
  <Party v="BRP" codingScheme="A01" />
  <MeasurementUnit v="MWH" />
  <Currency v="EUR" />
  <Period>
    <TimeInterval v="2015-08-30T22:00Z/2015-09-21T23:00Z " />
    <Resolution v=" PT1H" />
    <AccountInterval>
      <Pos v="1" />
        <InQty v="0" />
        <OutQty v="0" />
        <SettlementAmount v="0" />
      </AccountInterval>
      ...
    <AccountInterval>
      <Pos v="529" />
      <InQty v="0" />
      <OutQty v="0" />
      <SettlementAmount v="0" />
    </AccountInterval>
  </Period>
```

eSett

2022-05-11

Public

```
</AccountTimeSeries>
</EnergyAccountReport>
```

Request example

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request >

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A12"/>
        <urn:DocumentStatus v="A01"/>
        <urn:ProcessType v="A06"/>
        <urn:ClassificationType v="A02"/>
        <urn:SenderIdentification v="" codingScheme=""/>
        <urn:SenderRole v="A05"/>
        <urn:ReceiverIdentification v="" codingScheme=""/>
        <urn:ReceiverRole v="A08"/>
        <urn:CreationDateTime v=""/>
        <urn:Domain v="" codingScheme=""/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="IM" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2015-10-24T00:00:00Z/2015-11-21T23:00:00Z" />
        </urn:RequestComponent>

      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>
```

```

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency"/>
  <urn:RequestedAttributeValue v="EUR" />
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.15 MGA Imbalance

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"MIM"
"TimeResolution"	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H", "PT60M" - for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00Z/2015-02-01T02:00Z" system will return data for January 2015 and February 2015.
"MGA" Optional	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MGA

Response example

```

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

<EnergyAccountReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel.org:neg:esp:energyaccountreportddocument:1:0">

  <DocumentIdentification v="" />
  <DocumentVersion v="1" />
  <DocumentType v="A12" />
  <DocumentStatus v="A01" />
  <ProcessType v="A06" />
  <ClassificationType v="A02" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP" codingScheme="A01" />
  <ReceiverRole v="A08" />
  <DocumentDateTime v="2015-12-10T12:00Z" />
  <AccountingPeriod v="2014-09-01T00:00Z/2015-09-21T23:00Z" />
  <Domain v="10Y1001A1001A91G" codingScheme="A01" />
  <AccountTimeSeries>
    <SendersTimeSeriesIdentification v="v1" />
    <BusinessType v="B29" />
    <Product v="8716867000030" />
    <ObjectAggregation v="A01" />
    <Area v="MGA" codingScheme="A01" />
    <Party v="BRP" codingScheme="A01" />
    <MeasurementUnit v="MWH" />
    <Period>
      <TimeInterval v="2015-08-30T22:00Z/2015-09-21T23:00Z" />
      <Resolution v="PT1H" />
    </Period>
    <AccountInterval>
      <Pos v="1" />
      <InQty v="0" />
      <OutQty v="0" />
    </AccountInterval>
  </AccountTimeSeries>
  ...

```

eSett

2022-05-11

Public

```

<AccountInterval>
  <Pos v="529" />
  <InQty v="0" />
  <OutQty v="0" />
</AccountInterval>
</Period>
</AccountTimeSeries>
</EnergyAccountReport>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v="1"/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="DSO01" codingScheme="A01"/>
        <urn:SenderRole v="A18"/>
        <urn:ReceiverIdentification v=" " codingScheme="A01"/>
        <urn:ReceiverRole v="A05"/>
        <urn:CreationDateTime v="2015-01-21T18:00:00Z"/>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow"/>
          <urn:RequestedAttributeValue v="MIM" />
        </urn:RequestComponent>

        <urn:RequestComponent>
          <urn:RequestedAttribute v="TimeInterval"/>
          <urn:RequestedAttributeValue v="2015-08-10T00:00:00Z/2015-11-21T23:00:00Z" />
        </urn:RequestComponent>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

eSett

2022-05-11

Public

```

    <urn:RequestComponent>
      <urn:RequestedAttribute v="TimeResolution"/>
      <urn:RequestedAttributeValue v="PT1H" />
    </urn:RequestComponent>

  </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.16 Production per Production Unit Type and MGA

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"GENERIC"
"DocumentType"	"PROD_MGA_PUT_HOUR"
"SenderIdentification"	TSO Code / Coding Scheme
"SenderRole"	A04
"TimeResolution"	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00:00Z/2015-02-01T02:00:00Z" system will return data for January 2015 and February 2015.
"MGA" Optional	CODE – in v attribute CODING SCHEME – in Coding Scheme attribute Code and Coding Scheme of desired MGA
"PU_TYPE" Optional	Z05 Wind Z06 Hydro Z07 Consumption B14 Nuclear B20 Other B16 Solar Z04 Thermal Power

XML snippet example

```

<DocumentIdentification v="51efd752c3574b9caf98a1a7f0de0188" />
<DocumentType v="PROD_MGA_PUT_HOUR " />
<SenderIdentification v="44X-00000000004B" codingScheme="A01" />
<SenderRole v="A05" />
<ReceiverIdentification v="10X1001A1001A38Y" codingScheme="EIC" />
<ReceiverRole v="A04" />
<CreationDateTime v="2017-02-06T14:00:16Z" />
<DocumentTimeInterval v="2017-02-01T22:00Z/2017-02-10T23:00Z" />
<TimeSeries>
  <TimeSeriesIdentification v="97e187e7628646d8901a5a26141fff37" />
  <BusinessDimensions>
    <BusinessDimension name="MGA" codingScheme="EIC" v="MGA11" />
    <BusinessDimension name="PU_TYPE" v="Z05" />
  </BusinessDimensions>
  <Period>
    <TimeInterval v="2017-02-02T23:00Z/2017-02-05T00:00Z" />
    <Resolution v="PT1H" />
    <Interval>
      <Pos v="1" />
      <Value name="Q" v="1005" />
    </Interval>
  </Period>
</TimeSeries>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>

```



```
<inf:GetData>
```

```
<inf:request >
```

```
<urn:DocumentIdentification v="" />
```

```
<urn:DocumentType v="PROD_MGA_PUT_HOUR"/>
```

```
<urn:SenderIdentification v="" codingScheme="" />
```

```
<urn:SenderRole v="A04"/>
```

```
<urn:ReceiverIdentification v="" codingScheme="" />
```

```
<urn:ReceiverRole v="A04"/>
```

```
<urn:CreationDateTime v="" />
```

```
<urn:RequestComponent>
```

```
<urn:RequestedAttribute v="Dataflow"/>
```

```
<urn:RequestedAttributeValue v="GENERIC" />
```

```
</urn:RequestComponent>
```

```
<urn:RequestComponent>
```

```
<urn:RequestedAttribute v="DocumentType"/>
```

```
<urn:RequestedAttributeValue v="PROD_MGA_PUT_HOUR" />
```

```
</urn:RequestComponent>
```

```
</urn:RequestComponent>
```

```
<urn:RequestComponent>
```

```
<urn:RequestedAttribute v="TimeResolution"/>
```

```
<urn:RequestedAttributeValue v="PT1H" />
```

```
</urn:RequestComponent>
```

```
<urn:RequestComponent>
```

```
<urn:RequestedAttribute v="TimeInterval"/>
```

```
<urn:RequestedAttributeValue v=" YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ" />
```

```
</urn:RequestComponent>
```

```
</inf:request>
```

```
</inf:GetData>
```

```
</soap:Body>
```

```
</soap:Envelope>
```

3.1.3.17 MGA-MBA Relations

Parameter	Mandatory	Value
"DataFlow"	Yes	"ARE"
"TimeInterval"	No	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ If time interval is set in the request then only MGA-MBA relations valid sometime within this interval are selected. If no time interval is set then all relations (also historical & future) are returned.
"Country"	Yes	Country ISO code – in v attribute Permitted values: • FI • SE • NO • DK <i>Coding Scheme attribute is empty</i>

Response example

```
<NEGAreaSpecificationDocument
xsi:schemaLocation="urn:ediel.org:neg:masterdata:areaspecificationdocument:1:0 urn-ediel-org-neg-masterdata-
areaspecificationdocument-1-0.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:ediel.org:neg:masterdata:areaspecificationdocument:1:0">

  <DocumentIdentification v="INFS-AREO-1" />
  <DocumentType v="Z11" />
  <ProcessType v="Z07" />
  <SenderIdentification v="44X-00000000004B" codingScheme="A01" />
  <SenderRole v="A05" />
  <ReceiverIdentification v="BRP10" codingScheme="A01" />
  <ReceiverRole v="A08" />
```

```
<CreationDateTime v="2018-10-17T11:36:10Z" />
<ValidityPeriod>
  <ValidityStart v="2015-08-31T22:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <ArealIdentification v="10Y1001A1001A48H" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <ArealIdentification v="DF_MGA004" codingScheme="NFI" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA001" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA002" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA005" codingScheme="NSE" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA006" codingScheme="NNO" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA003" codingScheme="A10" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <ArealIdentification v="DF_MGA007" codingScheme="NDK" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>
</ValidityPeriod>
```

```

</RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2014-12-31T23:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <AreaIdentification v="10YNO-4-----9" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <AreaIdentification v="MGA16" codingScheme="NFI" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA17" codingScheme="NFI" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA11" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA13" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA12" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>
</AreaSpecificationDetails>
  <AreaIdentification v="10YNO-3-----J" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>

```

```
<ArealIdentification v="MGA18" codingScheme="A01" />
<TypeOfArea v="Z02" />
</RelatedArea>
<RelatedArea>
  <ArealIdentification v="MGA14" codingScheme="A01" />
  <TypeOfArea v="Z02" />
</RelatedArea>
<RelatedArea>
  <ArealIdentification v="MGA15" codingScheme="A01" />
  <TypeOfArea v="Z02" />
</RelatedArea>
</AreaSpecificationDetails>
<AreaSpecificationDetails>
  <ArealIdentification v="10YNO-1-----2" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <ArealIdentification v="MGA05" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
<AreaSpecificationDetails>
  <ArealIdentification v="10YNO-2-----T" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <ArealIdentification v="MGA06" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2015-04-29T22:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <ArealIdentification v="10YNO-1-----2" codingScheme="A01" />
```

```
<TypeOfArea v="Z01" />
<RelatedArea>
  <AreaIdentification v="MR_MGA202" codingScheme="A01" />
  <TypeOfArea v="Z02" />
</RelatedArea>
</AreaSpecificationDetails>
<AreaSpecificationDetails>
  <AreaIdentification v="10Y1001A1001A48H" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <AreaIdentification v="MR_MGA203" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2015-12-31T23:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <AreaIdentification v="10YNO-3-----J" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <AreaIdentification v="SC_MGA104" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA08" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="MGA07" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>
```

```

<AreaSpecificationDetails>
  <AreaIdentification v="10YNO-4-----9" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <AreaIdentification v="SC_MGA103" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2015-04-12T22:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <AreaIdentification v="10Y1001A1001A48H" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <AreaIdentification v="SC_MGA21" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="SC_MGA12" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>
  <AreaSpecificationDetails>
    <AreaIdentification v="10YNO-1-----2" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <AreaIdentification v="TP_MGA06" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
    <RelatedArea>
      <AreaIdentification v="TP_MGA13" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>

```

```

</RelatedArea>
<RelatedArea>
  <AreaIdentification v="TP_MGA10" codingScheme="A01" />
  <TypeOfArea v="Z02" />
</RelatedArea>
</AreaSpecificationDetails>
<AreaSpecificationDetails>
  <AreaIdentification v="10YNO-2-----T" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <AreaIdentification v="SC_MGA11" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
  <RelatedArea>
    <AreaIdentification v="SC_MGA20" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2015-10-29T23:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />
  <AreaSpecificationDetails>
    <AreaIdentification v="10YNO-2-----T" codingScheme="A01" />
    <TypeOfArea v="Z01" />
    <RelatedArea>
      <AreaIdentification v="MR_MGA201" codingScheme="A01" />
      <TypeOfArea v="Z02" />
    </RelatedArea>
  </AreaSpecificationDetails>
</ValidityPeriod>
<ValidityPeriod>
  <ValidityStart v="2015-11-19T23:00:00Z" />
  <ValidityEnd v="2026-12-31T23:00:00Z" />

```



```

<AreaSpecificationDetails>
  <AreaIdentification v="10YNO-4-----9" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <AreaIdentification v="MGA_RUN" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
<AreaSpecificationDetails>
  <AreaIdentification v="10YNO-2-----T" codingScheme="A01" />
  <TypeOfArea v="Z01" />
  <RelatedArea>
    <AreaIdentification v="MGA_NL1" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
  <RelatedArea>
    <AreaIdentification v="MGA_DK1N" codingScheme="A01" />
    <TypeOfArea v="Z02" />
  </RelatedArea>
</AreaSpecificationDetails>
</ValidityPeriod>
</NEGAreaSpecificationDocument>

```

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>

      <inf:request >

        <urn:DocumentIdentification v=""/>
        <urn:DocumentType v="Z11"/>

```

```

<urn:ProcessType v="Z07"/>

<urn:SenderIdentification v="" codingScheme=""/>
<urn:SenderRole v="A05"/>
<urn:ReceiverIdentification v="" codingScheme=""/>
<urn:ReceiverRole v="A26, A04, A08, A12"/>
<urn:CreationDateTime v=""/>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow"/>
  <urn:RequestedAttributeValue v="ARE" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2015-10-24T00:00:00Z/2015-11-21T23:00:00Z" />

</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Country"/>
  <urn:RequestedAttributeValue v="Permitted values: FI / SE / NO" />
</urn:RequestComponent>

</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope> </soap:Body>
</soap:Envelope>

```

3.1.3.18 Merged Production

RequestedAttribute	RequestedAttributeValue
"DataFlow"	"MPR"
"TimeResolution"	"P1Y" – for yearly aggregated data

	"P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H" – for hourly data
"TimeInterval"	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00:00Z/2015-02-01T02:00:00Z" system will return data for January 2015 and February 2015.
"PartyRE" Optional	PARTY CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired Retailer.
"MGA" Optional	MGA CODE – in v attribute MGA CODING SCHEME – in CodingScheme attribute Code and Coding scheme of MGA
"Asset Type" Optional	"B14" Nuclear "B16" Solar "B20" Other production "Z04" Thermal "Z05" Wind "Z06" Hydro
"Production Type" Optional	"Z01" Normal "Z02" Minor

Request example

```
<soap:Envelope xmlns:inf="http://www.basse.eu/information-service-1.0"
xmlns:urn="urn:entsoe.eu:wgedi:components" xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Header xmlns:wsa="http://www.w3.org/2005/08/addressing">
  </soap:Header>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">

        <urn:DocumentIdentification v=""/>
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="" codingScheme="" />
        <urn:SenderRole v="" />
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>
```

```
<urn:ReceiverIdentification v=" " codingScheme="A01"/>
<urn:ReceiverRole v="A05"/>
<urn:CreationDateTime v="2021-09-01T00:00:00Z"/>
<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow"/>
  <urn:RequestedAttributeValue v="MPR"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2021-08-20T00:00:00Z/2021-08-22T00:00:00Z"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H"/>
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="PartyRE"/>
  <urn:RequestedAttributeValue v="" codingScheme=" "/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="MGA"/>
  <urn:RequestedAttributeValue v="" codingScheme=" "/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="AssetType"/>
  <urn:RequestedAttributeValue v="Z04"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="ProductionType"/>
  <urn:RequestedAttributeValue v="Z01"/>
</urn:RequestComponent>
```

```

    </inf:request>
  </inf:GetData>
</soap:Body>
</soap:Envelope>

```

3.1.3.19 Capacity Reserves

RequestedAttribute	Card.	RequestedAttributeValue
"DataFlow"	1..1	"CRE"
"TimeResolution"	1..1	"P1Y" – for yearly aggregated data "P1M" – for monthly aggregated data "P7D" – for weekly aggregated data "P1D" – for daily aggregated data "PT1H" – for hourly data
"TimeInterval"	1..1	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ System will take into account also parts of the intervals. So for example if there are demanded monthly aggregated data for this interval: "2015-01-02T02:00:00Z/2015-02-01T02:00:00Z" system will return data for January 2015 and February 2015.
"BusinessType"	1..1	Business type is mandatory. Response may contain Capacity Reserves of one business type only. Allowed combination of business type and reason codes are specified in chapter <i>Business Type and Reason Code Mapping Table</i> .
"ReasonCode"	0..1	
"MBA"	0..1	CODE – in v attribute CODING SCHEME – in CodingScheme attribute Code and Coding Scheme of desired MBA

Request example

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header/>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">
        <urn:DocumentIdentification v=" " />
        <urn:DocumentType v="A25"/>
        <urn:SenderIdentification v="" codingScheme=" " />
        <urn:SenderRole v="A08"/>
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>

```

```
<urn:ReceiverIdentification v=" " codingScheme="A01"/>
<urn:ReceiverRole v="A05"/>
<urn:CreationDateTime v="2015-07-20T00:00:00Z"/>
<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow"/>
  <urn:RequestedAttributeValue v="CRE"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval"/>
  <urn:RequestedAttributeValue v="2021-09-07T00:00:00Z/2021-09-08T00:00:00Z"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution"/>
  <urn:RequestedAttributeValue v="PT1H"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="MBA"/>
  <urn:RequestedAttributeValue v="" codingScheme="A01"/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="BusinessType"/>
  <urn:RequestedAttributeValue v=" "/>
</urn:RequestComponent>
<urn:RequestComponent>
  <urn:RequestedAttribute v="ReasonCode"/>
  <urn:RequestedAttributeValue v=" "/>
</urn:RequestComponent>
</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>
```

3.1.4 Handling of Optional Parameters

Some of the request parameters of Information Service are marked as optional. If any of these parameters are left out of the request XML document, it is assumed that the sender wants to get information about all the values, which are accessible to the sender.

E.g. when requesting Production hourly data, one can leave the Production Unit parameter out. The Information Service will then return values for all Production Units the sender is entitled to access. Please consider that in this scenario the response might (especially for large service providers) surpass the limit for maximal response size. The preferred solution is then to query smaller time interval (e.g. one day instead of one week).

3.1.5 Full example of the XML when sending request

You can send the XML files with headers or without depending on your own client. You can have a client that is configured to send the credentials with the message and therefore you don't need to include the credentials in the headers a second time.

Example without headers

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
<soap:Header xmlns:wsa="http://www.w3.org/2005/08/addressing">
</soap:Header>
<soap:Body>
<inf:GetData>
<inf:request DtdVersion="?" DtdRelease="?">
<urn:DocumentIdentification v="1" />

<urn:DocumentType v="A25" />

<urn:SenderIdIdentification v="Your Market Partys Code" codingScheme="Your Market partys CodingScheme" />
<urn:SenderRole v="A08" />

<!-- Receiver is eSett !-->
<urn:ReceiverIdentification v="44X-00000000004B" codingScheme="A01" />
<urn:ReceiverRole v="A05" />

<urn:CreationDateTime v="2022-01-01T13:00:00Z" />
</inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>
```

```
<urn:RequestComponent>
  <urn:RequestedAttribute v="Dataflow" />
  <urn:RequestedAttributeValue v="Dataflow you wish to request" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval" />
  <urn:RequestedAttributeValue v="2022-02-01T00:00Z/2022-03-01T00:00Z" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution" />
  <urn:RequestedAttributeValue v=" PT1H " />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="MBA" />
  <urn:RequestedAttributeValue v="MBA Code here" codingScheme="A01" />
</urn:RequestComponent>
<urn:RequestComponent>

<urn:RequestedAttribute v="BRP" />
  <urn:RequestedAttributeValue v="BRP Code here" codingScheme="A10" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency" />
  <urn:RequestedAttributeValue v="EUR" />
</urn:RequestComponent>

  </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>
```


eSett

2022-05-11

Public

Here is also an example with headers included in the SOAP envelope

Example without headers

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:inf="http://www.basse.eu/information-service-1.0" xmlns:urn="urn:entsoe.eu:wgedi:components">
  <soap:Header xmlns:wsa="http://www.w3.org/2005/08/addressing">
    <Security xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <UsernameToken d4p1:Id="UsernameToken-49" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:d4p1="http://docs.oasis-open.org/wss/2004/01/oasis-
200401-wss-wssecurity-utility-1.0.xsd">
        <Username>YourONLSUsername</Username>
        <Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">YourONLSPassword</Password>
      </UsernameToken>
    </Security>
    <wsa:To>https://testservice2.esett.com/INFS/InformationService.svc</wsa:To>
  </soap:Header>
  <soap:Body>
    <inf:GetData>
      <inf:request DtdVersion="?" DtdRelease="?">
        <urn:DocumentIdentification v="1" />

        <urn:DocumentType v="A25" />

        <urn:SenderIdentification v="Your Market Partys Code" codingScheme="Your Market partys CodingScheme" />
        <urn:SenderRole v="A08" />

        <--- Receiver is eSett !->
        <urn:ReceiverIdentification v="44X-00000000004B" codingScheme="A01" />
        <urn:ReceiverRole v="A05" />

        <urn:CreationDateTime v="2022-01-01T13:00:00Z" />

        <urn:RequestComponent>
          <urn:RequestedAttribute v="Dataflow" />
      </inf:request>
    </inf:GetData>
  </soap:Body>
</soap:Envelope>
```

```
<urn:RequestedAttributeValue v="Dataflow you wish to request" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeInterval" />
  <urn:RequestedAttributeValue v="2022-02-01T00:00Z/2022-03-01T00:00Z" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="TimeResolution" />
  <urn:RequestedAttributeValue v=" PT1H " />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="MBA" />
  <urn:RequestedAttributeValue v="MBA Code here" codingScheme="A01" />
</urn:RequestComponent>
<urn:RequestComponent>

<urn:RequestedAttribute v="BRP" />
  <urn:RequestedAttributeValue v="BRP Code here" codingScheme="A10" />
</urn:RequestComponent>

<urn:RequestComponent>
  <urn:RequestedAttribute v="Currency" />
  <urn:RequestedAttributeValue v="EUR" />
</urn:RequestComponent>

  </inf:request>
</inf:GetData>
</soap:Body>
</soap:Envelope>
```