

Elia B2B E-nomination system using CIM - Implementation Guide

This document describes all aspects of Elia B2B E-Nomination system implementation using International CIM message format.

This manual should be read by:

- *BRP operational staff
who need to understand how the concepts and processes related to the current system are treated in the Elia implementation of CIM standard*
- *BRP IT staff
who need to develop or adapt business applications to generate and receive CIM XML Scheduling messages with Elia B2B E-Nomination system*

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<i>Section</i>	<i>Description</i>
<i>All</i>	<i>Typos corrections</i>

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Chapter 1. Introduction

The Elia B2B E-nomination system can be used by BRPs to submit new nominations to Elia and to retrieve information about existing nominations and BRP Imbalance within Elia systems.

This implementation guide provides all the information you need to understand and adapt your systems in order to communicate with the Elia B2B E-nomination system using the CIM Scheduling standard.

The principal aim of the CIM Scheduling standard is to provide a standard form of information exchange between BRPs and TSOs across Europe. The development of a standard messaging system enable the implementation of business applications that can communicate balancing requirements between all involved parties in all European countries.

Before to read this document, Elia suggests to read the document [E-Nomination Guide](#) (freely available on the Elia web page [nominations](#)) that explains all the business concepts about the nominations at Elia.

Note! No Application Programming Interface (API) are provided and thus it is up to the BRP to implement both XML handling and the connection with the Elia B2B E-nomination system. (See "3.6 HTTP communication through VB Script " p 13 for example of how to implement XML handling and connection) using the 'Message generation tool' if he desires to (see "7.4 Using the Message Generation Tool " p 60).

1.1. CIM – Electronic Scheduling System (ESS)

This implementation guide explains the use of the CIM Scheduling system in order to submit nominations to the Elia B2B E-nomination system.

Additional information is available from IEC Standard Implementation Guides: These documents define the adopted standard for the different Message structures. They provide reference for all parts of the document.

They can be bought on the IEC Web Store: <https://www.iec.ch/>

IEC reference	CIM XML message defined	Title	Short description
62325-301	None	Framework for energy market communications - Part 301: Common information model (CIM) extensions for markets	This Standard specifies the common information model (CIM) for energy market communications
62325-351	None	Framework for energy market communications - Part 351: CIM European market model exchange profile (ESMP)	This Standard specifies a package which provides a logical view of the functional aspects of European style market management within an electricity market.
62325-451-1	Acknowledge	Framework for energy market communications - Part 451-1: Acknowledgement business process and contextual model for CIM European market	This Standard specifies a package for the acknowledgment business process and its associated message contextual model, assembly model and XML Schema for use within the European style electricity markets
62325-451-2	Schedule, Anomaly, Confirmation	Framework for energy market communications - Part 451-2: Scheduling business process and	This Standard specifies a package for the scheduling business process and its associated message contextual models, assembly models and XML

		contextual model for CIM European market	Schemas for use within the European style electricity markets
62325-451-5	Status Request	Framework for energy market communications - Part 451-5: Problem statement and status request business processes, contextual and assembly models for European market	This Standard specifies a package for the problem statement and status request business processes and the associated message contextual models, assembly models and XML Schema for use within European style markets

Additional information: ENTSO-E is responsible for the CIM standard for European part:
<https://www.entsoe.eu/digital/common-information-model/>

1.2. Related documents

Document	Short description
E-nominations guide	The existing "B2C" application (Elia E-nomination web site) used for submitting, reviewing and modifying nominations in a web browser. Elia recommends strongly to have this document while using the present implementation guide to have a better understanding of the different business concepts used by Elia. It is freely available on e-nominationsguide.pdf
Message Generation Tool	The File 'MessageGenerationTool.xlsm' can assist you in understanding the structure of the CIM XML format message in comparison to the Elia E-nomination web site (also called "B2C"). It also serves to generate sample CIM XML scheduling messages that can be used as a basis in order to adapt your own application. This tool is explained on section 7.4 "Using the Message Generation Tool" on page 60. This tool is freely available on: https://www.elia.be/-/media/project/elia/elia-site/customers/customer-tools/nominations/documents-information-related-to-the-business-to-business-2025.zip .

Chapter 2. Glossary

Term	Description
Amprion	One of the 4 German TSO having a common electrical border with Elia Grid.
B2C	The Elia E-nomination web site used for submitting, reviewing and modifying nominations in a web browser. See "E-Nomination website" here below
B2B	<p>In this document "Business to business".</p> <p>This is the Electronic interface used by BRP that allows to access the Elia B2B E-nomination system directly from the BRP's technical system.</p> <p>A BRP can submit a nomination through CIM XML messages that are sent directly to Elia via the so-called B2B E-nomination system.</p>
BRP	<p>The BRP is responsible for the energy balance of the injections and off takes he manages. A BRP is the only party who can exchange, import and export energy. To do so, he has to submit nominations.</p> <p>The BRP is therefore the company who uses Elia B2B E-nomination system. Previously the BRP was called the "ARP".</p>
CAI	Capacity Agreement Identification. Identifies agreement for capacity allocation. The related element is defined in section "8.3.3 Schedule TimeSeries elements " p 69
CDS	Closed Distribution System
CIM	Common Information Model
Common Information Model	The Common Information Model (CIM) is an international standard used for modelling the information exchanges required in electric utilities. CIM is independent of any individual application, middleware, or message protocols used for data exchange. More information on "1.1 CIM – Electronic Scheduling System (ESS)" p 5
Contract	The Contract between the BRP and Elia.
Cross-Border	Nomination between 2 Areas or 2 borders. For example between Belgium and the Netherlands or Belgium and France or Belgium and Amprion Area or Belgium and UK.
DA	Day Ahead.
Day Ahead	The delivery day is the day after the current day.
DST	Daylight Saving Time
DTD	<p>Document Type Definition. These documents are not provided nor supported by Elia. Only the XML Schema (XSD) are available.</p> <p>See chapter 11 "Schemas and namespaces" p110</p>
E-Nomination website	<p>Elia website where BRPs can submit nominations manually via a web browser, consult the states and history of the nominations and check if their BRP obligations are fulfilled</p> <p>The document E-Nomination Guide (freely available) explains all the business concepts about the nominations at Elia and how to use the E-Nomination website.</p>
EIC	Energy Identification Code

Element	This term is also used to describe a message "field", but in a more technical sense in relation to the structure of the CIM XML message.
Elia	Belgian TSO. For details, see www.elia.be
Elia B2B E-nomination system	The subject of this implementation guide: The system of Elia that receives the automated HTTP/XML/CIM nomination requests from the BRP
Execution date	The delivery day when the nomination is executed by Elia. See 4.1.3.3 "Execution date" p20
Export	In this document, this is a flow of energy from Elia's grid to a neighbour Area (FR, NL, DE, UK)
IDA	SIDC pan-European Intraday Auction. It means the intraday auction mechanism described in Annex 1 « Methodology for pricing intraday cross-zonal capacity » to ACER's Decision n° 01/2019 of 24 January 2019 on establishing a single methodology for pricing intraday cross-zonal capacity, as amended from time to time.
IDA1	The first IDA where Gate Closure Time for market participants to submit their bids is set to D-1 15h00.
IDA2	The second IDA where Gate Closure Time for market participants to submit their bids is set to D-1 22h00.
IDA3	The third IDA where Gate Closure Time for market participants to submit their bids is set to D 10h00. IDA3 allocation scope is only for the second part of the day: [D 12:00,D+1 00:00[. However The IDA3 TimeSeries must contain the whole day.
IEC	International Electrotechnical Commission https://www.iec.ch/
Gate	The gate determines the timeframe when a nomination can be entered and what is the scope of the entered nomination.
HUB	See 'Internal' in this Glossary
ID	Intra-day
Import	In this document, this is a flow of energy from any neighbour Area (FR, NL, DE, UK) to Elia's grid
Injection	An Injection nomination is the schedule of the addition of energy on the Elia grid from a Access Point, a Distribution grid or a CDS access point.
Internal	A transfer of energy between 2 BRPs into the Elia's grid.
International	A transfer of energy from Elia grid to another Area ("Export") or from another Area to Elia Grid ("Import"). Also call "Cross border" or "XB".
Intra-day	A Nomination whose scope is the current day.
Load	See 'Offtake' in this glossary.
Message field	This refers to the element in the CIM XML message that describes a particular parameter associated with the message. See also "Element" in this glossary

MW	Unit of active power: megawatt (1 000 000 W).
Nomination	<p>A nomination is the access schedule of a planned energy exchange between two BRPs, injection or offtake of an BRP in the Elia grid. As energy cannot be stored, any energy injection done by a given BRP requires a matching energy exchange with another BRP or off take done by the same BRP at the same point in time.</p> <p>There are 4 types of nomination:</p> <ol style="list-style-type: none"> 1. Internal (hub) nomination, with 2 subtypes: <ul style="list-style-type: none"> • Day Ahead (DA) • Intra-day (ID) 2. International (Cross border) nomination, with 3 subtypes: <ul style="list-style-type: none"> • Day Ahead (DA) • Intra-day <ul style="list-style-type: none"> ○ Classic ○ IDA 3. Load (offtake) nomination 4. Production nomination, with 2 subtypes: <ol style="list-style-type: none"> 4.2 Injection nomination in distribution grids 4.1 Generation nomination: These nominations may not be entered using the Elia B2B E-nomination system. However, they are used to calculate the Net Position of the BRP. See section 8.6.3.4 "The BusinessType" p79.
National Grid	British TSO (UK) having a common electrical border with Elia network.
Offtake	An Offtake (Load) nomination refers to the physical energy off take from the Elia grid to an Access Point, a Distribution grid, an Offshore, a CDS access point or a Delivery Point.
RTE	<p>'Réseau de Transport d'Electricité'.</p> <p>French TSO (FR) having a common electrical border with Elia network.</p>
Schedule message	This refers to the conceptual equivalent of a nomination which uses the message format set "Schedule_MarketDocument" from the IEC 62325-451-2 standard defined in section "1.1 CIM – Electronic Scheduling System (ESS)" p 5 The word "message" is used to indicate the 'content' of the communication between a BRP and Elia
SIDC	Single Intraday Coupling
Single Intraday Coupling	<p>Pan-european Intraday market coupling composed of both:</p> <ul style="list-style-type: none"> • Intraday Continuous Trading ("SIDC/IDCT" – also known as "XBID") and • Intraday Auctions ("SIDC/IDA")
TenneT	Dutch TSO (NL) having a common electrical border with Elia network.
TSO	Transmission System Operator. TSOs are responsible for the bulk transmission of electric power on the main high voltage electric networks. TSOs provide grid access to the electricity market players (i.e. generating companies, traders, suppliers, distributors and directly connected customers) according to non-discriminatory and transparent rules. In order to ensure the security of supply, they also guarantee the safe operation and maintenance of the system. In many countries, TSOs are in charge of the development of the grid infrastructure too. TSOs in the European Union internal electricity market are entities operating independently from the other electricity market players.

UTC	Coordinated Universal Time, which is the international standard for civil time and the Internet.
VB	Visual Basic
VBA	Visual Basic for Applications
XB	Cross Border, See "International".
XML	eXtensible Markup Language They are also called "CIM XML" in this document. A very short description of XML is given in 4.2 "XML messages" p 21
XSD	XML Schema. See chapter 11 "Schemas and namespaces" p110

Chapter 3. HTTP Communication with Elia B2B E-nomination system

This section describes how to use the Elia B2B E-nomination system by sending and receiving CIM XML messages directly over HTTPS.

3.1. Connecting to the B2B E-nomination system

There are two Elia B2B E-nomination systems:

- *The demonstration or test purpose system: This web site may be used by any BRP who wants to test his new B2B application without impact on the operational data, using the user id and password provided by Elia.*
- *the production system.*

Note! The same address is used when connecting to the "B2B testing web page" (see 3.7 "B2B E-nomination system – Web testing page." p14) and to be used in HTTPs POST calls (see "3.6 HTTP communication through VB Script " p 13)

3.2. Elia B2B E-nomination Address

Elia B2B E-nomination system endpoints address to use by BRP application are:

Address	Remark
https://nominationsdemo.elia.be/B2B/cimrequest.asp	EndPoint Address to the Elia B2B E-nomination system (test/demo system)
https://nominations.elia.be/B2B/cimrequest.asp	EndPoint Address to the Elia B2B E-nomination system (production version)

Note! Theses addresses may only be used by a BRP application using HTTPs POST calls (see "3.6 HTTP communication through VB Script " p 13)

It is therefore not possible to use them within a Web Browser.

However, it is possible to (for testing purpose) to send a CIM message via a specific browser page: See 3.7 "B2B E-nomination system – Web testing page." p14

3.3. Creating CIM XML document per datatype

The CIM XML Messages that are sent to the Elia B2B E-nomination system must observe the specifications documented in the Chapter 8 "Messages sent from the BRP to Elia" p 65 . The fields must be mapped to XML tags in the following way:

- A field with a simple datatype (simple datatypes are listed in the section "4.2.3 Data types " p 22) is mapped to an xml tag with the same name and the field content becomes the content of the tag. For example, the version field in a 'revisionNumber' is mapped to:

```
<Schedule_MarketDocument ...>
[... ]
<revisionNumber>609</revisionNumber>
[... ]
</Schedule_MarketDocument >
```

- A field where the datatype is another structure is mapped to an xml tag with the same name, taking over the child tags of that other structure. For example, the schedule_Time_Period.timeInterval field in a Schedule_MarketDocument is mapped to:

```
<Schedule_MarketDocument ...>
[... ]
<schedule_Time_Period.timeInterval>
  <start>2020-07-21T22:00Z</start>
  <end>2050-07-22T22:00Z</end>
</schedule_Time_Period.timeInterval>
[... ]
</Schedule_MarketDocument >
```

- A field where the datatype is a list is mapped to an xml tag repeated:

```
<TimeSeries>
... other elements ...
  <Point>
    <position>1</position>
    <quantity>142.9</quantity>
  </Point>
  <Point>
    <position>2</position>
    <quantity>307.1</quantity>
  </Point>
</TimeSeries>
```

3.4. Error handling

In case of an error (invalid request, internal error or any issue that arrives to the Elia B2B E-nomination system), each page returns

- *an Error message and*
- *a standard HTTP status of 510, 400, 401, etc*

instead of their normal output.

3.5. Handling the connection to the Elia B2B E-nomination system

To establish an Internet connection with the Elia B2B E-nomination system, the following rules must be observed:

- *For data security reasons, HTTPS must be used with the userid and password given by Elia.*
- *All messages must be sent by HTTP(s) POST method*
- *The content type should be "text/xml"*
- *The HTTPS body should only consist of the XML string, beginning directly with the root tag.*

3.6. HTTP communication through VB Script

Here is an example of how to communicate with the Elia B2B E-nomination system with a VB Script code via Internet.

This method is compatible with Microsoft Windows 10.

Note! The current version Microsoft XML Parser (indicated as “msxml” in the example here below) needs to be installed on the computers that executes the script and correctly referenced in the script.

Complete script:

```
'This script calls the Elia B2B E-nomination system CIMRequest.asp page to get information
about existing international nominations
baseUrl = "https://nominationsdemo.elia.be/B2B/cimrequest.asp"
user = "Your user id given by Elia"
password = "Your password"
EIC = "Your EIC"
postData = "<Schedule_MarketDocument xmlns='urn:iec62325.351:tc57wg16:451-
2:scheduledocument:5:1' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'>" & _
    "<mRID>" & EIC & "</mRID>" & _
    "<revisionNumber>1</revisionNumber>" & _
    "<type>A01</type>" & _
    "<process.processType>A01</process.processType>" & _
    "<process.classificationType>A01</process.classificationType>" & _
    "<sender_MarketParticipant.mRID codingScheme='A01'>" & EIC &
    "</sender_MarketParticipant.mRID>" & _
    "<sender_MarketParticipant.marketRole.type>A08</sender_MarketParticipant.marketRole.type>"
    & _
    "<receiver_MarketParticipant.mRID
codingScheme='A01'>10X1001A1001A094</receiver_MarketParticipant.mRID>" & _
    "<receiver_MarketParticipant.marketRole.type>A04</receiver_MarketParticipant.marketRole.ty
pe>" & _
    "<createdDateTime>2025-07-22T22:00:00Z</createdDateTime>" & _
    "<schedule_Time_Period.timeInterval>" & _
    "    "<start>2050-07-22T22:00Z</start>" & _
    "    "<end>2050-07-23T22:00Z</end>" & _
    "</schedule_Time_Period.timeInterval>" & _
    "<domain.mRID codingScheme='A01'>10YBE-----2</domain.mRID>" & _
    "</Schedule_MarketDocument>"

Set o = CreateObject("msxml2.ServerXMLHTTP")
o.open "POST", baseUrl, 0, user, password
o.setRequestHeader "Content-type", "text/xml"
o.setRequestHeader "Content-length", len(postData)
o.send postData
Msgbox "Status: " & o.status
Msgbox "Answer: " & o.responseText
```

Each main command of this VB script is described here below:

```
Set o = CreateObject("msxml2.ServerXMLHTTP")
```

We create an instance of the "ServerXMLHTTP" object that serves to establish HTTPS connection to the Elia B2B E-nomination system. "msxml2" must be replaced by the version of the XML version available on your computer if this version 2 is not available.

```
o.open "POST", baseUrl, 0, user, password
```

We initialize an XMLHTTP request and specify the method, URL and authentication of the information for the request.

In this case we call the HTTPS "POST" method of the CIMRequest.asp page in asynchronous mode and specify the user account and the corresponding password.

```
o.setRequestHeader "Content-type", "text/xml"
```

```
o.setRequestHeader "Content-length", len(postData)
```

We specify that the content type of the request is XML and the length of the data we transmit to the called page.

```
o.send postData
```

We send the HTTPS request to the Elia B2B E-nomination system (defined by the variable `baseUrl`) and receive the response.

```
Msgbox "Status: " & o.status
```

We display the HTTP status of this call to the Elia B2B E-nomination system. If no issue, the value should be 200

```
Msgbox "Answer: " & o.responseText
```

We display the message answer of this call from the Elia B2B E-nomination system.

Note! This code can also be run within Microsoft Excel VBA

3.7. B2B E-nomination system – Web testing page.

The goal of the "B2B" protocol is to allow to send automatically the CIM XML documents using a BRP System that uses the HTTPS "POST" command as described in the section here above.

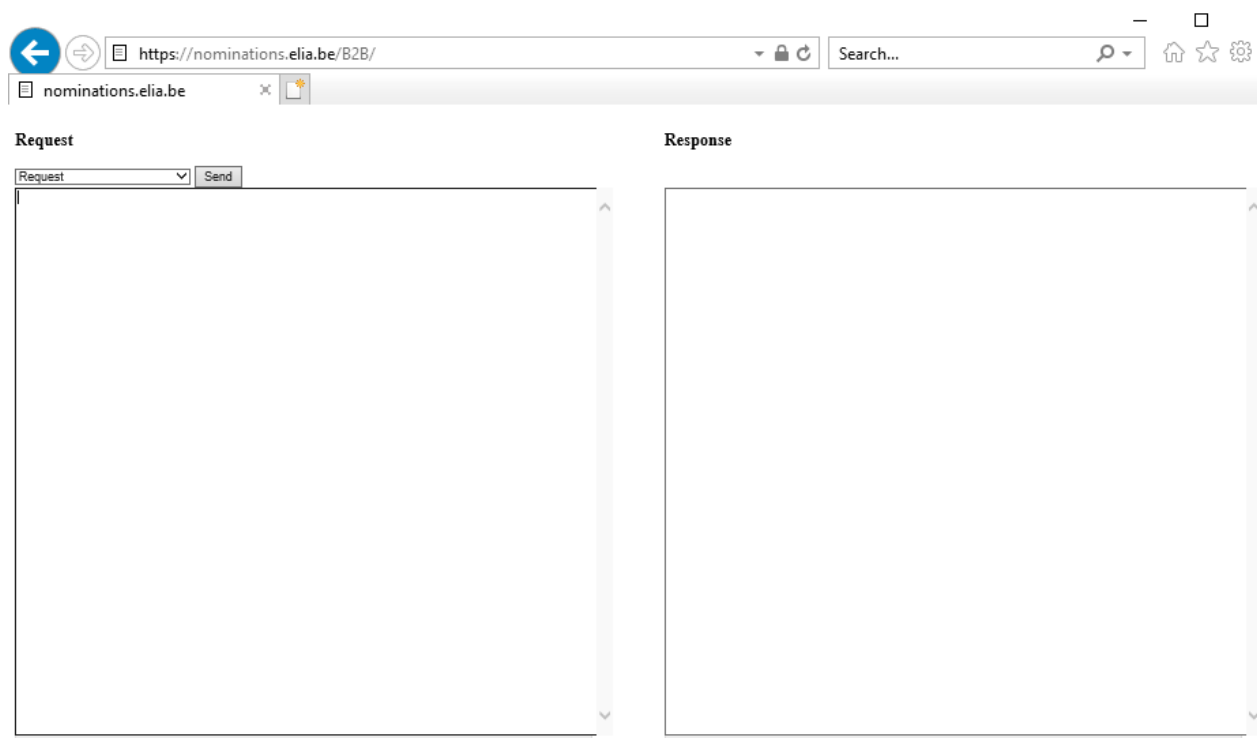
However, it is possible also to send a CIM XML document by using your web browser and going on a specific web page on the E-Nomination website, accessible using the user id and password that are provided by Elia

Elia web page where the B2B messages can be reached on your web browser:

Address	Remark
https://nominationsdemo.elia.be/B2B/	Web page allowing to test or send messages to Elia test (Demo) B2B E-nomination system
https://nominations.elia.be/B2B/	Web page allowing to test or send messages to Elia B2B E-nomination system

Note! A special user id only available for the demonstration B2B web site testing page can be furnished on request to the Elia 'Energy Scheduling Office' (address available at the beginning of this implementation guide)

This web page allows the user to enter the CIM XML message:



Please note that the Request text box must be 'CIM > Request'

Request



Note! A first usefull test is to use the 'Message generation tool' (see "7.4 Using the Message Generation Tool " p 60) to create a CIM XML message. Then copy and paste this created CIM XML message on this web page and see the response of the Elia B2B E-nomination system (test/demo system).

This web page can be usefull in following cases:

- Test a new CIM XML document and directly see the answer within your Web Browser from the (demo) Elia B2B E-nomination system
- Use as "fall back" solution if your system has a problem to connect to the Elia B2B E-nomination system but the CIM XML document is available

Chapter 4. Submitting nominations

This chapter is of interest to BRP *operational staff* who want to understand how familiar concepts are treated in the CIM standard for Elia Nominations.

This chapter describes the terms and concepts associated with submitting nominations in the terminology of the IEC CIM adopted standards.

The Elia terminology used in the management of nominations is set out in the E-nominations guide available freely on Elia Web at the address [e-nominationsguide.pdf](#)

A description of the general principles in terms of the CIM standard are set out in the IEC Standard Implementation Guides (see section 1.1 "CIM – Electronic Scheduling System (ESS)").

Nominations submitted to the Elia B2B E-nomination system must be written in XML (eXtensible Markup Language), so this chapter also contains an introduction to XML.

4.1. Schedule message

The nature of a nomination (being a request to transfer a series of quantities of energy between two parties or Areas/Domains over a specified period of time) have to be submitted by a certain time, be processed and eventually confirmed by Elia (for Internal and International nominations). An overall description of the process is given in Chapter 5.

This section contains a review of the general principles involved in submitting nominations and relates the terms and parameters used by Elia in the E-nomination web site to the terms that are expressed in the IEC 62325-451-2 (see section 1.1 "CIM – Electronic Scheduling System (ESS)")

When submitting a nomination using the E-nomination web site the first step you would take would be to choose the type of nomination (International, Internal, Offtake or Injection).

- There is one type of "*Schedule_MarketDocument*" that can be used for **all** types of nominations

The characteristics that define the different types of nomination are determined by a collective group of fields and attributes within a single message type.

The actual nomination i.e. the series of energy quantities forms just a part of the Schedule message. This is referred to as the "Time Series". A single Schedule message can contain several Time Series.

The Schedule message itself contains a set of 'header' lines. All of these header lines define attributes that are common to all the time series.

Similarly each time series has a set of headers in addition to the actual energy values. These headers distinguish between the different time series in the same message.

Details on the parameters that can be specified for each time series are given in Chapter 8.



- Each Schedule message is identified by a **mRID** field.

This message **mRID** must be unique for any particular day. This means that you must use different identification for messages that are submitted on different days.

Similarly each time series within the message must have a unique identification.

- Each Schedule Time Series is identified by a **mRID** field

This is only required to be unique within this message.

4.1.1. The Parties involved

A Schedule (or Status Request) message must of course be submitted by a BRP.

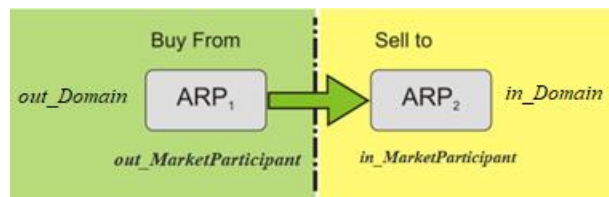
- The **BRP** submitting a nomination is identified by the **sender_MarketParticipant.mRID** field.
- Only the EIC is allowed to identify the sender_MarketParticipant.mRID and receiver_MarketParticipant.mRID

The BRP who is submitting a message is defined in the header of the message, but the corresponding BRP (counterparty) who is involved in the transfer is defined in the Schedule Time Series. Thus a single Schedule message can contain time schedules with different counterparty BRPs.

On the E-nomination web site, the couple of BRPs involved in an internal transfer are referred to as the "Buy from" party (who is selling the energy: the "Seller") and the "Sell to" party (who is buying the energy: the "Buyer").

In the IEC 62325-451-2, energy is transferred from the **out** MarketParticipant.mRID, who is selling the energy (*sending it out*) to the **in** MarketParticipant.mRID, who is buying the energy (*taking it in*).

- The **Sell to** party is referred to as the **in_MarketParticipant.mRID**: this is the **buyer**
- The **Buy from** party is referred to as the **out_MarketParticipant.mRID**: this is the **seller**
- Only the EIC is allowed to identify the out_MarketParticipant.mRID and in_MarketParticipant.mRID



A BRP is also associated with a business area (or domain). This is discussed in more detail in section 4.1.2 below.

The out_MarketParticipant is associated with an out_Domain and the MarketParticipant is associated with an in_Domain.

A business area with which Electricity can be Exchanged can be regarded as:

- One European country; thus Belgium, France , United Kingdom or the Netherlands
- One part of a European Country managed by one TSO: Amprion is managing one Area from Germany

This business area can be either an in_Domain or an out_Domain.

The concerned BRPs in the other Domains are currently referred to as the Counterparty. When submitting a nomination, it is a mandatory requirement when submitting a Schedule message.

- When submitting an International nomination, the **Counterparty** BRPs in the Netherlands, France, UK, Amprion Area *must* be specified as an **in_MarketParticipant.mRID** or **out_MarketParticipant.mRID** and must be the same EIC as the BRP in Belgium

4.1.2. The Domains - business areas

All BRPs are associated with a business area in which they operate.

- The **domain** (*domain.mRID*) defines the business area associated with the message

The domain or Area is a concept that does apply in the Elia B2B E-nomination system. It defines the nature of the Schedule message as well as the business areas involved.

- 1) The "generic" domain is set in the Schedule message header and thus applies to all time series contained within the message. Because all the messages concern Belgium: the CIM element "domain.mRID" is always "10YBE-----2".
- 2) The definition of the business area being an in_Domain or an out_Domain is specified in the Time Series.
 - For the equivalent of an Internal, Offtake or Injection nomination Belgium is the in_Domain or an out_Domain and is optional.
 - For the equivalent of an International nomination then Belgium must be either the in_Domain or an out_Domain. In this case both elements are mandatory.

Note! On Elia E-nomination web site, all international nominations are associated with a 'contract'. A contract is selected according to the border over which the energy is being transferred (with France (RTE), the Netherlands (TenneT), UK (National Grid) or Amprion in Germany) and the direction in which the transfer takes place.

In the CIM XML messages, the 'contract' is defined by the field "marketAgreement.mRID" and some other fields. See section 6.4.2 "Contract associated with International nominations." p31 .

4.1.3. Dates and times

4.1.3.1. Created Date and Time

Each message must indicate when it was created on the sending System.

■ The **Message creation date and time** is referred to as a **createdDateTime**

The element 'createdDateTime' must be expressed in UTC with the format: "YYYY-MM-DDThh:mm:ssZ"
Where

- YYYY refers to the year,
- MM refers to the month
- DD refers to the day
- T is a fixed entry and indicates the start of the time definition
- hh refers to the hour
- mm refers to the minutes
- ss refers to the seconds
- Z is a fixed entry indicating that the Time Coordinate is UTC.

Example 1: 2020-05-10T13:00:00Z means then 10th of May 2020 at 15h in Belgian Summer local time

4.1.3.2. Daylight Saving Time

The daylight saving times (DST) issue is solved by the use of UTC time

Example 1: summer time to winter time in Belgium in 2020.

ISO	Local time	UTC
2025-10-26 00:00+02	0h (summer time)	2025-10-25T22:00Z
2025-10-26 01:00+02	1h (summer time)	2025-10-25T23:00Z
2025-10-26 02:00+02	2h (summer time)	2025-10-26T00:00Z
2025-10-26 02:00+01	at 3h (summer time) it is 2h (winter time)	2025-10-25T01:00Z
2025-10-26 03:00+01	3h (winter time)	2025-10-25T02:00Z

Example 3: winter time to summer time in Belgium in 2020.

ISO	Local time	UTC
2020-03-30 00:00+01	0h (winter time)	2020-03-29T23:00Z
2020-03-30 01:00+01	1h (winter time)	2020-03-30T00:00Z

ISO	Local time	UTC
2020-03-30 03:00+02	at 2h (winter time) it is 3h (summer time)	2025-03-30T01:00Z
2020-03-30 04:00+02	4h (summer time)	2025-03-30T02:00Z

4.1.3.3. Execution date

All nominations (included IDA3) always refers to a particular period: exactly one complete day:

The 'Execution date' or 'Delivery date' or 'Delivery period' or 'operational period' or 'schedule_Time_Period' on which the energy will be transferred. It appears in different places in the CIM XML file.

■ The **Execution date** is referred to as a **schedule_Time_Period.timeInterval**

All dates are referred to not by a single calendar date but by a Start time and an End time that are defined in UTC.

Every Schedule Time Series must refer to the same 'schedule_Time_Period.timeInterval' or 'execution date' within one Schedule message.

The time interval for the schedule must be defined as a

{start-date-time} and {end-date-time}

with both date-times being expressed in UTC.

The date to which the Schedule refers is the complete day in local time. i.e. starting at 0.00h local time and ending at 24.00h local time (excluded).

The corresponding start and end time expressed in UTC depend therefore on whether it is summer time or winter time as explained in the above section:

- In summer time UTC time is Local time – 2 hours, therefore 0.00h local time in Belgium is 22.00h UTC on the previous day.
- In winter time UTC time is Local time – 1 hour, therefore 0.00 h local time in Belgium is 23.00h UTC on the previous day.

So to submit a Schedule for 15th June 2026 the following value would be required:

```
<schedule_Time_Period.timeInterval>
  <start>2026-06-14T22:00Z</start>
  <end>2026-06-15T22:00Z</end>
</schedule_Time_Period.timeInterval>
```

To submit a schedule for 15th November 2027 the following value would be required:

```
<schedule_Time_Period.timeInterval>
  <start>2027-11-14T23:00Z</start>
  <end>2027-11-15T23:00Z</end>
</schedule_Time_Period.timeInterval>
```

To submit a schedule for 26th October 2025 (The daylight saving times (DST) from summer to winter) the following value would be required:

```
<schedule_Time_Period.timeInterval>
  <start>2025-10-25T22:00Z</start>
  <end>2025-10-26T23:00Z </end>
</schedule_Time_Period.timeInterval>
```

To submit a schedule for 29th March 2026 (The daylight saving times (DST) from winter to summer) the following value would be required:

```
<schedule_Time_Period.timeInterval>
  <start>2026-03-28T23:00Z</start>
  <end>2026-03-29T22:00Z</end>
</schedule_Time_Period.timeInterval>
```

The same date / time period must be used for each of the Time series that are contained in the Schedule message

4.1.3.4. Time interval for a value

The time interval for which the energy transfer values are defined is hourly for international schedules and 15 minutes for others schedules.

- The **Time interval** for a value is referred to as a **resolution**
-

See also sections "8.3.4 Period elements" p 70 and "8.3.5 Number of "Point" " p 71

4.1.4. Access points: Injection point or Offtake point

The Access Point can be:

- DSO network Point
- CDS Access Point
- Access Point directly connected on the Elia grid
- Access Point connected on a distribution grid
- Access Point behind the Delivery Point
- Offshore Interconnection Point
- Delivery Point

An injection or an offtake point, used in Injection or Offtake nomination is defined within the Schedule Time series.

- The **Injection point** and **Offtake point** are referred to by the CIM Element **marketEvaluationPoint.mRID**.
 - This element contains only the EAN of the Injection or Offtake Point.
-

The `marketEvaluationPoint` should thus be different for each time series contained within the message for the same type of nomination.

Note! To know the possible Access points you may use, do not hesitate to consult the Elia E-nomination web site.

4.2. XML messages

Messages, as created by a business application, must be written in eXtensible Markup Language (XML). This section contains a basic introduction to XML documents and their structure. This is not an extensive description of XML, but aims to provide operational staff with enough information to understand the important aspects of using XML in relation to CIM XML messages.

Note! Some important information about XML messages used by Elia B2B nomination system are also available in "8.3.1 Schedule message XML Namespace " p 67 .

Note! Each element must respect the indicated lower case or upper case letters.

4.2.1. XML overview

"XML" stands for eXtensible Markup Language and represents a simple but effective means of transferring data in an easily understandable and usable fashion. An XML message consists of a number of "elements" (set between tags) that define the nature of the data to be communicated. So for example a Schedule Time Series ("TimeSeries") contains elements called `<Point>` (within `Period`), which define each time interval contained in the time series.

4.2.2. A well-formed message

Each `<Point>` contains two other elements that define the position of the time interval in the entire time series as well as the quantity of power to be transferred during this interval.

```
<Point>
  <position/>1</position>
  <quantity>11.5</quantity>
</Point>
```

The start of the information is indicated by the opening tag `<Point>` and the end by the closing tag `</Point>` with the "/" in front

All the tags must be correctly opened and closed: Then the message is said to be “well-formed”. The use of properly nested start and end tags is essential if the XML message is to be read and interpreted correctly.

4.2.3. Data types

The following table describes all the datatypes allowed in XML structure specifications:

Data type	Typical XML representation	Lexical pattern	Comments
int	-1, 0, 1, +100000	[?[0-9]+	The following constraints can be expressed: minimum value, maximum value. Values must be between 0 and 9999.
decimal	-1.2, 12678967.5, +1000.00, 210	[-+]?[0-9]+(\.[0-9]+)?	The following constraints can be expressed: minimum value, maximum value. Values must be between 0.0 and 9999.9.
boolean	1, 0, true, false	true false	
Date and time	See "4.1.3 Dates and times " p 18		

4.2.4. A valid message

In order to be universally understood, an XML file must follow a predefined structure. The structure of the message is set out in a “Schema”. A Schema is also a type of XML message with the file extension “.XSD”. The Schema for a Schedule message dictates that an <Point> element must contain a <position> element followed by a <quantity> element. If one of these elements is missing or they are not presented in the correct order then the message is termed as “invalid”: it does not comply with the Schema. An invalid message will be rejected using an Acknowledgement message by the Elia B2B E-nomination system.

The Schema that is used to control the content and structure of a XML message may be indicated in the header of the message

```
<Schedule_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

Details on the Schemas and the namespace are given in Chapter 11.

Note! A message which is ‘invalid’ or ‘not well formed’ will receive an Acknowledge message indicating that it is “not well formed”

XML files are basically very simple and can be created in a text editor, but since the resulting message must be both valid (complying with the Schema) and well-formed (has matching start and end tags), it is recommended that a dedicated XML editor is used, that makes reference to the Schema and guides the user in creating valid messages

Note! The “Message Generation Tool” provides an easy and intuitive way of creating valid XML Schedule message. Refer to section 7.4 “Using the Message Generation Tool” p60 for more information.

Note! The B2B web page allow to see easily the response of the Elia B2B E-nomination system without to have to build any System. Refer to “3.7 B2B E-nomination system – Web testing page ” p 14 for more information.

4.2.5. A correct XML message

The fact that your XML Schedule message is “valid” i.e. complies to all the rules of the Schema, does not necessarily mean that it is “correct” in terms of specifying your intended nomination. Not all the requirements of the XML message can be defined simply in terms of the elements it contains.

This is illustrated by considering the example below:

```
<Period>
  <timeInterval>
    <start>2012-09-18T22:00Z</start>
    <end>2012-09-19T22:00Z</end>
  </timeInterval>
  <resolution>PT15M</resolution>
  <Point>
    <position>1</position>
    <quantity>11</quantity>
  </Point>
</Period>
```

This sample of the file is well-formed (all the opening tags are matched with closing tags) and valid since it obeys all the rules of the Schema. But it is not correct from an operational point of view since only one interval of 15 minutes and one corresponding energy quantity is defined when the time series is defined for 24 hours (between 22:00h UTC time on 18th of September and the same time on the 19th of September 2012).

There are a number of “business” rules that must be applied to the Schedule message that are not controlled by the Schema. The Schema is an international standard and is being implemented in many European countries, it allows for a range of options that will satisfy all the TSOs in the world. In some cases Elia applies specific constraints on the messages that it will accept. For example Elia only accepts energy quantities specified in the units “MAW”, whereas the Schema allows for MWH, KWH and others.

As mentioned above there is only one Schedule message used for all types of nominations. The distinction between different types is managed by a combination of related and dependent fields.

Information on how the various elements are related is given in Chapter 6. To aid you in setting up messages that are well-formed, valid and correct, you can use the Message Generation Tool described in section 7.4.

Chapter 5. The balancing process

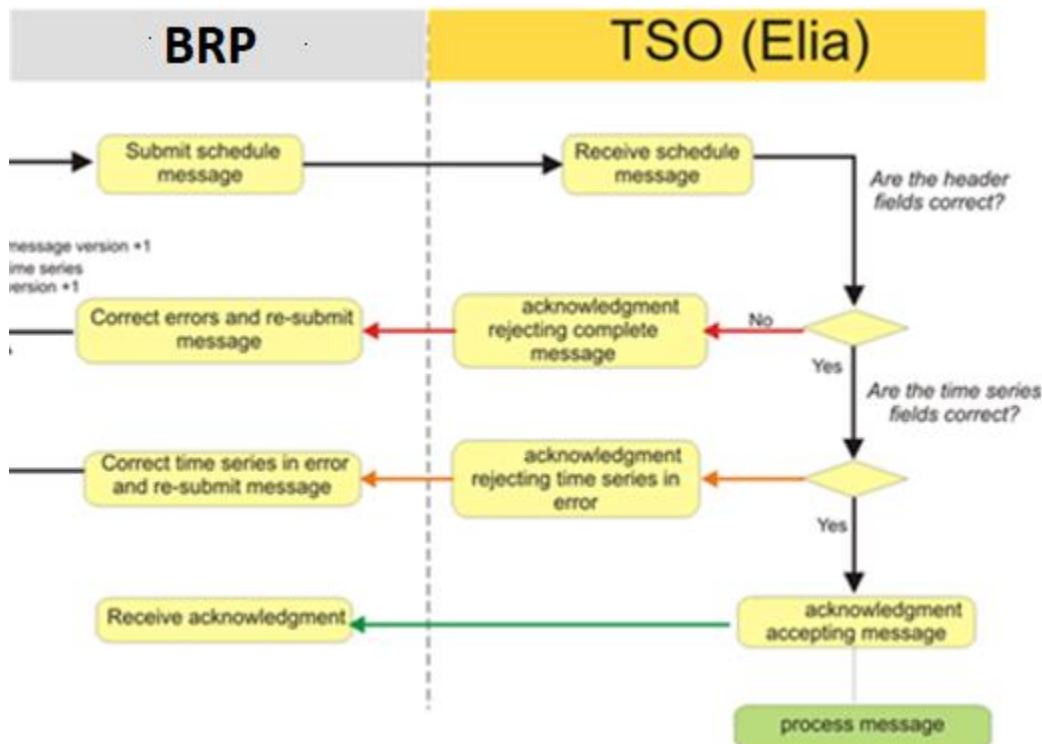
Schedule messages detailing energy transfer requirements (see Chapter 4) must be submitted to the TSO (Elia) just as nominations must be submitted via the E-nomination web site. When the Elia B2B E-nomination system receives the CIM XML Schedule message, an Acknowledgement message is returned. The Acknowledgement indicates whether the message has been accepted (completely or partially) or rejected. This can only be regarded as a message delivery receipt, it does not mean that the proposed energy schedule has been confirmed by Elia. This constitutes phase 1 as described in section 5.1.

Once the Schedule message has been accepted, the accepted time series are stored as "nominations" in the Elia B2B E-nomination system, the assessment of the balance requirements can begin. If there is a problem in satisfying the requested transfers, a BRP can make a specific request for information on the status of their nominations. The BRP can then take corrective action before the cut-off time is reached. This constitutes phase 2 as described in section 5.2).

The BRP can request a Confirmation Report for a Specific execution date: See "Messages sent from the BRP to Elia " p 65

5.1. Phase 1 - Acceptance of the Schedule

This phase constitutes an initial assessment of the structure, syntax, validity and correctness of the Schedule message: When a BRP submits a Schedule message to the TSO (Elia) the message is checked to see that it is well-formed, valid (conforms to the Schema) and correct (satisfies the business rules laid down by Elia) (See section 4.2.) and can be accepted.. It does not assess the energy quantities and does not imply a confirmation of the requested energy transfers.



If an error is detected in the header fields of the Schedule message then the whole message is rejected, nothing is saved in the Elia B2B E-nomination system and an Acknowledgement message is returned indicating the problem. The BRP must correct the error and re-submit the message, with a higher message version number of the message and the time series.

If the header fields are correct but an error is detected in one of the time series, the message is 'partially' rejected, the correct nominations are saved and an Acknowledgement message is returned indicating the reference (mRID) of the time series within the message where the problems exist. Once again the BRP must correct the error and re-submit the message. The version number of the time series in error and the version number of the message must be increased.

Remark: If the message contains many time series, the time series that are valid and satisfy the business rules are accepted and saved in the Elia B2B E-nomination system. They have therefore not to be resent.

Note! When re-submitting the message, it is not necessary to re-submit the nominations that were already accepted.

When no errors are detected and the message is both well-formed, valid and correct, the message will be accepted. An Acknowledgement message is sent to indicate this. At this point the second phase can begin and an assessment of the balance situation can begin.

Details on the structure and content of Acknowledgment messages are given in section 9.2.

5.2. Phase 2 - Balance assessment

Once a Schedule CIM XML message has been (at least partially) accepted, the information necessary to balance a BRP's time series can be assessed.

A BRP can make a specific request using the CIM XML "Status Request" message to obtain:

- An Anomaly CIM XML report (described in section "9.3 Anomaly report " p 96)

which will list only time series contained in the Elia E-nomination web site that present balancing problems detected for the criteria's defined in the Status Request message.

- A Confirmation CIM XML report (described in section "9.4 Confirmation report " p 102)

which contains all the time series known in the Elia E-nomination web site (or one aggregated Time Series) for the criteria's defined in the Status Request message

There is just one Status Request message format that is used for requesting each type of report.

Details on all the fields contained in the Status Request message are listed in section "8.6

StatusRequest_MarketDocument " p 76

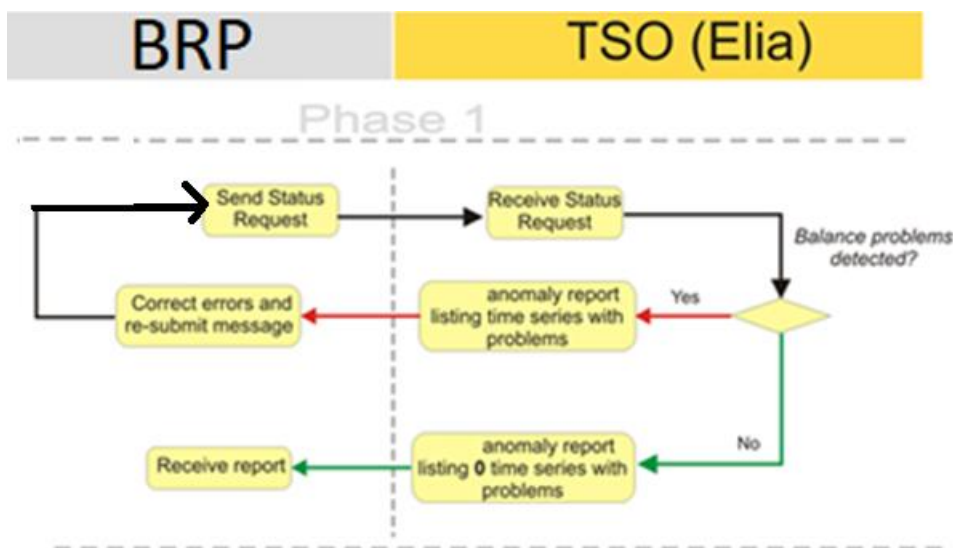
The Schema relating to the Status Request is referenced in chapter "Schemas and namespaces " p 110

Note! You can generate a Status Request example using the Elia "Message Generation Tool" as described in section "7.4 Using the Message Generation Tool " p 60, and test it using the "B2B web testing page" as described in "3.7 B2B E-nomination system – Web testing page " p 14 .

5.2.1. Anomaly report request

Figure below shows the process involved when the BRP requests an Anomaly report. If a balance problem has been detected for the criteria's defined in the Status Request message, an Anomaly report listing only the time series presenting errors will be issued. If there are no anomalies the Anomaly report will contain a header and no time series.

If the Status Request message contains issues, an Acknowledgement message is sent back

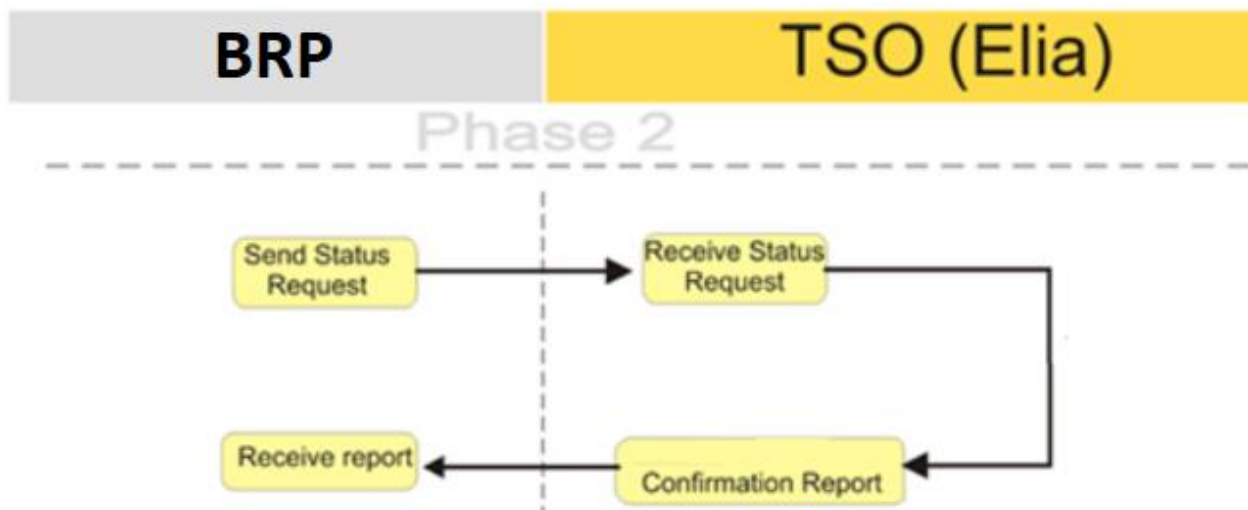


Note! Elia B2B E-nomination system never sends on its own initiative CIM XML messages. It only answers to the Schedule or Status Request messages sent by the BRP.

Note! Some combinations of Attributes in the Status Request are forbidden. See 9.1 "Dependency matrix on returned messages" p92

5.2.2. Confirmation report request

Figure below represents the process involved when the BRP requests a Confirmation report (and the Status Request document is well-formed, valid and correct).



Note! Some combinations of Attributes in the Status Request are forbidden. See 9.1 "Dependency matrix on returned messages" p92

Chapter 6. Schedule message: Nomination types

This chapter explains in an object approach the context of the messages to send to the Elia B2B E-nomination system.

Note! All power values must be positive and less than 10000. The direction being indicated, when necessary, by the elements 'in_MarketParticipant.mRID', 'out_MarketParticipant.mRID', 'in_Domain.mRID' or 'out_Domain.mRID' in the element 'TimeSeries'

This chapter shows in more detail how the elements are represented in the Schedule CIM XML message. It also highlights specific business conditions required for the messages to be correct.

This chapter is divided into four sections dealing with:

- Injection nominations (section 6.1)
- Offtake nominations (section 6.2)
- Internal nominations (section 6.3) – Also known as "Hub nominations"
- International (external) nominations (section 6.4)

Note! Generation nominations are not treated by the Elia B2B E-nomination system. However they are used to calculate the Net position of the BRP.

Note! Once a nomination has been submitted and when a change to this nominated schedule has to be made, the BRP must submit a new version, i.e. a time series with the same elements but with a higher version number.

This nomination may be in the same schedule message (mRID) and sent with other time series or sent within a new schedule message: The Elia B2B E-nomination system will validate that the given time series version is higher than the previously accepted nomination highest version number.

6.1. Injection nomination Schedule

Details on how to create this specific type of message is given in section 7.5.

The complete list of all the elements required for a Schedule message are listed in Chapter 8.

For an Injection Schedule message: the marketEvaluationPoint.mRID time series field is mandatory.

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header series process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A01

Note! An Injection nomination can be created using the "Message Generation Tool" described in 7.4 "Using the Message Generation Tool" p60 .

6.2. Offtake nomination

Details on how to create this specific type of message is given in section 7.6.

The complete list of all the fields required for a Schedule message are listed in Chapter 8.

For an Offtake Schedule message: the time series element marketEvaluationPoint.mRID is mandatory

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A04

Note! An Offtake nomination can be created using the "Message Generation Tool" described in p60 .

6.3. Internal nomination Schedule

Details on how to create this specific type of message is given in section 7.7.

The complete list of all the fields required for a Schedule message are listed in Chapter 8.

*For an Internal Schedule message:
the time series elements in 'MarketParticipant.mRID' and the
'out_MarketParticipant.mRID' time series fields are mandatory*

Note! An Internal nomination can be created using the "Message Generation Tool" described in p60 .

6.3.1. Internal nomination Flexible and Regular Parts

Elia B2B E-nomination system and E-nomination web site support that BRP sends "Flex" and/or "Regular" parts within their Internal Nominations if the BRP has the right to send these kind of nominations. More information about these new concepts can be provided by your key account manager.

Possible values:

Internal Time series BusinessType code	Description
A02	This is the standard Internal trade Type. The Internal nomination is a "classical" exchange of energy between 2 BRP's
Z02	This is the "Regular" part of an Internal nomination within one exchange between 2 BRP. This code may be omitted or present. If it is present, then all values must be present and the related "Flexible" must be present in the <u>same</u> schedule message
Z03	This is the "Flexible" part of an Internal nomination. This code may be omitted or present. If it is present, then all values must be present and the related "Regular" must be present in the <u>same</u> schedule message

Note! Flex nomination always need to be saved in the same schedule message as Regular nomination!

Note! Only the total of Regular and Flex parts is compared against the CounterParty nomination.

Note! If you never use the new "flex" possibility, then continue to use the A02 businessType code. If there is only "regular" power exchange, then code Z02 and A02 are equivalent but Elia advises to use the code A02.

6.3.2. Day Ahead internal nomination Schedule

This type of nomination requires the following values to be attributed to the elements shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A02 or Z02 or Z03 See "6.3.1 Internal nomination Flexible and Regular Parts " p 29

6.3.3. Intra-day internal nomination Schedule

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A02 or Z02 or Z03 See "6.3.1 Internal nomination Flexible and Regular Parts " p 29

6.4. International nomination Schedule

Details on how to create this specific type of message is given in section 7.8.

The complete list of all the elements required for a Schedule message are listed in Chapter 8 where it is indicated whether each element is mandatory or optional.

This section describes possible International nominations for exchange with Areas FR, NL, UK and Amprion and all time frames.

Note! Currently, some International nominations and/or time frames are implicit and may not be introduced by the BRP. However, on very specific case, they could be sent as a "fall-back protocol" and must be coordinated with Elia. This is why the following sections propose all the possible cases, even if they are not currently allowed.

Please refer to your Elia Key Account manager or Elia Energy Scheduling Office (address on the cover of this implementation guide) to know what are the possible international nominations that are currently allowed.

In addition to the elements listed in Chapter 8 and in the sub-sections below the following condition applies to all international Schedule messages:

*For an international Schedule message:
the 'TimeSeries' elements 'in_MarketParticipant.mRID' and the
'out_MarketParticipant.mRID' are mandatory and must use the same EIC*

6.4.1. Direction / domain fields

The energy flowing out of the business area is identified by the element 'TimeSeries' out_Domain (going out). And the energy flowing in to the business area is identified by the element 'TimeSeries' in_Domain (coming in)

6.4.2. Contract associated with International nominations.

When submitting an International nomination on the (B2C) E-nomination web site, each type of International nomination is associated with a "Contract".

Contract	B-000-00-00001 Day Ahead Yearly from ELIA to TenneT
Counterparty: Accepted	B-000-00-00001 Day Ahead Yearly from ELIA to TenneT
Transaction ID:	B-000-00-00002 Day Ahead Monthly from ELIA to TenneT
	B-000-00-00003 Day Ahead Daily from ELIA to TenneT

The "Contract" is indicated in the CIM XML message using the field "marketAgreement.mRID" and some codes explained here below.

Depending on the International nomination type, the field "marketAgreement.mRID" is only mandatory for the Intra-day schedules.

Of course, it can be added in all the other Schedules International messages as well.

The "Contract" syntax is composed of following parts:

Element	Contract format	Value		
Contract root	"B-XXX-YYYY-BBBTT"	Defined within the BRP contract between the BRP and Elia. The format is normally "B-XXX-YYYY". However some other format like "B-XX-YY" is possible.		
Contract Border	"B-XXX-YYYY-BBBTT"	3 digits describing the Area having a border with Elia grid. Some are not (longer) used Possible values:		
		Value	Border	
		"000"	NL	
		"001"	FR	
		"002"	LU (reserved: not currently possible)	
		"003"	UK	
		"004"	Amprion	
Contract nomination type	"B-XXX-YYYY-BBBTT"	2 digits representing the contract direction and the type of international nomination Possible values:		
		Value	International nomination type	Direction
		"01"	Day Ahead Yearly	From BE to other Area
		"02"	Day Ahead Monthly	From BE to other Area
		"03"	Day Ahead Daily	From BE to other Area
		"04"	Day Ahead Yearly	From other Area to BE
		"05"	Day Ahead Monthly	From other Area to BE
		"06"	Day Ahead Daily	From other Area to BE
		"07"	Intra-day "classic"	From BE to other Area
		"08"	Intra-day "classic"	From other Area to BE
		"09"	IDA1	From BE to other Area
		"10"	IDA2	From BE to other Area
		"11"	IDA3	From BE to other Area
		"12"	IDA1	From other Area to BE
		"13"	IDA2	From other Area to BE
		"14"	IDA3	From other Area to BE

The "Contract" is indicated in the CIM XML message using the field "marketAgreement.mRID".

Depending on the International nomination type, the field "marketAgreement.mRID" is only mandatory for the Intra-day schedules.

It can be also be added in all the other Schedules International messages. The following table indicates explicitly for each international nomination, if the field "marketAgreement.mRID" is mandatory or optional.

Value	International nomination type	Cardinality
"01"	Day Ahead Yearly	Optional – not used by the Elia B2B E-nomination system
"02"	Day Ahead Monthly	Optional – not used by the Elia B2B E-nomination system
"03"	Day Ahead Daily	Optional – not used by the Elia B2B E-nomination system
"04"	Day Ahead Yearly	Optional – not used by the Elia B2B E-nomination system
"05"	Day Ahead Monthly	Optional – not used by the Elia B2B E-nomination system
"06"	Day Ahead Daily	Optional – not used by the Elia B2B E-nomination system
"07"	Intra-day "classic"	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"08"	Intra-day "classic"	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"09"	Intra-day IDA1	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"10"	Intra-day IDA2	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"11"	Intra-day IDA3	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"12"	Intra-day IDA1	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"13"	Intra-day IDA2	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination
"14"	Intra-day IDA3	Mandatory – used by the Elia B2B E-nomination system to retrieve the type of Intra-day nomination

Note! An International nomination can be created using the "Message Generation Tool" described in section 7.4.

6.4.3. International transfer between BE and NL

This section describes all the specific elements values required for a Schedule message transferring energy between BE (Elia) and NL (TenneT). The two sub-sections refer to the two directions: From Elia to TenneT and from TenneT to Elia.

As indicated in sections 6.4.2 and 4.1.2 the field "marketAgreement.mRID" is specified as mandatory or optional.

6.4.3.1. From Elia to TenneT

Contract : B-XXX-YY-00001 | Day Ahead Yearly | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00001

Contract : B-XXX-YY-00002 | Day Ahead Monthly | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00002

Contract : B-XXX-YY-00003 | Day Ahead Daily | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00003

Contract : B-XXX-YY-00007 | Intra-day | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00007

Contract : B-XXX-YY-00009 | IDA1 | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00009

Contract : B-XXX-YY-00010 | IDA2 | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00010

Contract : B-XXX-YY-00011 | IDA3 | From Elia to TenneT

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00011

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

6.4.3.2. From TenneT to Elia

Contract : B-XXX-YY-00004 | Day Ahead Yearly | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00004

Contract : B-XXX-YY-00005 | Day Ahead Monthly | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00005

Contract : B-XXX-YY-00006 | Day Ahead Daily | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00006

Contract : B-XXX-YY-00008 | Intra-day | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00008

Contract : B-XXX-YY-00012 | IDA1 | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00012

Contract : B-XXX-YY-00013 | IDA2 | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00013

Contract : B-XXX-YY-00014 | IDA3 | From TenneT to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YNL-----L codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00014

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

6.4.4. International transfer between BE and FR

This section describes all the specific field values required for Schedule message transferring energy between Elia and RTE in terms of the contract types. The two sub-sections distinguish between the two directions: From Elia to RTE and from RTE to Elia.

As indicated in sections 6.4.2 and 4.1.2 the field "marketAgreement.mRID" is specified as mandatory or optional.

6.4.4.1. From Elia to RTE

Contract : B-XXX-YY-00101 | Day Ahead Yearly | From Elia to RTE

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00101

Contract : B-XXX-YY-00102 | Day Ahead Monthly | From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00102

Contract : B-XXX-YY-00103 | Day Ahead Daily | From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00103

Contract : B-XXX-YY-00107 | Intra-day | From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00107

Contract : B-XXX-YY-00109 | IDA1 | From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03

TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-0109

Contract : B-XXX-YY-00110 | IDA2| From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-0110

Contract : B-XXX-YY-00111 | IDA3| From Elia to RTE

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-0111

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

6.4.4.2. From RTE to Elia

Contract : B-XXX-YY-00104 | Day Ahead Yearly | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type (optional)	A04
TimeSeries marketAgreement.mRID	The contract: B-XXX-YY-00104

Contract : B-XXX-YY-00105 | Day Ahead Monthly | From RTE to Elia

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00105

Contract : B-XXX-YY-00106 | Day Ahead Daily | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00106

Contract : B-XXX-YY-00108 | Intra-day | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00108

Contract : B-XXX-YY-00112 | IDA1 | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00112

Contract : B-XXX-YY-00113 | IDA2 | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00113

Contract : B-XXX-YY-00114 | IDA3 | From RTE to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YFR-RTE-----C codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00114

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

6.4.5. International transfer between BE and United Kingdom

This section describes all the specific field values required for Schedule message transferring energy between Elia and UK in terms of the contract types. The two sub-sections distinguish between the two directions: From Elia to UK and from UK to Elia

As indicated in sections 6.4.2 and 4.1.2 the field "marketAgreement.mRID" is specified as mandatory or optional.

Note! The IDA are not possible nor foreseen. They are therefore not indicated in the sections below.

6.4.5.1. From Elia to National Grid

Contract : B-XXX-YY-00301 | Day Ahead Yearly | From Elia to National Grid

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00301

Contract : B-XXX-YY-00302 | Day Ahead Monthly | From Elia to National Grid

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00302

Contract : B-XXX-YY-00303 | Day Ahead Daily | From Elia to National Grid

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00303

Contract : B-XXX-YY-00307 | Intra-day | From Elia to National Grid

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00307

6.4.5.2. From National Grid to Elia

Contract : B-XXX-YY-00304 | Day Ahead Yearly | From National Grid to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00304

Contract : B-XXX-YY-00305 | Day Ahead Monthly | From National Grid to Elia

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00305

Contract : B-XXX-YY-00306 | Day Ahead Daily | From National Grid to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00306

Contract : B-XXX-YY-00308 | Intra-day | From National Grid to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YGB-----A codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00308

6.4.6. International transfer between BE and Germany (Area managed by Amprion TSO)

This section describes all the specific field values required for Schedule message transferring energy between Elia and Amprion in terms of the contract types. The two sub-sections distinguish between the two directions: From Elia to Amprion and from Amprion to Elia.

As indicated in sections 6.4.2 and 4.1.2 the field "marketAgreement.mRID" is specified as mandatory or optional.

6.4.6.1. From Elia to Amprion

Contract : B-XXX-YY-00401 | Day Ahead Yearly | From Elia to Amprion

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00401

Contract : B-XXX-YY-00402 | Day Ahead Monthly | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00402

Contract : B-XXX-YY-00403 | Day Ahead Daily | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00403

Contract : B-XXX-YY-00407 | Intra-day | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00407

Contract : B-XXX-YY-00409 | IDA1 | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00409

Contract : B-XXX-YY-00410 | IDA2 | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID (mandatory)	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00410

Contract : B-XXX-YY-00411 | IDA3 | From Elia to Amprion

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries out_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00411

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

6.4.6.2. From Amprion to Elia

Contract : B-XXX-YY-00404 | Day Ahead Yearly | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A04
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00404

Contract : B-XXX-YY-00405 | Day Ahead Monthly | From Amprion to Elia

This type of nomination requires that the following values be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A03
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00405

Contract : B-XXX-YY-00406 | Day Ahead Daily | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A01
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A01
TimeSeries marketAgreement.mRID (optional)	The contract: B-XXX-YY-00406

Contract : B-XXX-YY-00408 | Intra-day | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00408

Contract : B-XXX-YY-00412 | IDA1 | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00412

Contract : B-XXX-YY-00413 | IDA2 | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00413

Contract : B-XXX-YY-00414 | IDA3 | From Amprion to Elia

This type of nomination requires the following values to be attributed to the fields shown below.

Element	Value
Header process.processType	A02 or A18
Header sender_MarketParticipant.marketRole.type	A08
Header domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries businessType	A03
TimeSeries in_Domain.mRID	10YBE-----2 codingScheme="A01"
TimeSeries out_Domain.mRID	10YDE-RWENET---I codingScheme="A01"
TimeSeries marketAgreement.type	A07
TimeSeries marketAgreement.mRID (mandatory)	The contract: B-XXX-YY-00414

Note! The IDA3 TimeSeries must contain the whole day. The 12 first hours must be set to 0.

Chapter 7. Creating sample schedules

This chapter describes how to use the Elia "Message Generation Tool" to generate sample Schedule and Status Request messages.

7.1. Purpose

The "Message Generation Tool" enables you to input the data required for all types of nomination and to see the corresponding CIM XML code generated.

The objective of this tool is to aid operational in understanding the structure and format of a Schedule or a Status Request message based on the same data accepted by the Elia E-nomination web site.

The resulting CIM XML messages will be of assistance to IT departments who need to develop a business application to generate these messages.

The resulting CIM XML can be copied and pasted on the Elia B2B testing page . See "3.7 B2B E-nomination system – Web testing page " p 14

***Note!** The primary purpose of this tool is educational. It is not designed to be used as an operational tool to generate real nominations.*

***Note!** Some simplification has been applied in view of its educational purpose: all possible cases could be not available*

7.2. Disclaimers

Elia provides this tool as an educational device. Please note therefore that Elia is not responsible for the correct functioning of this tool.

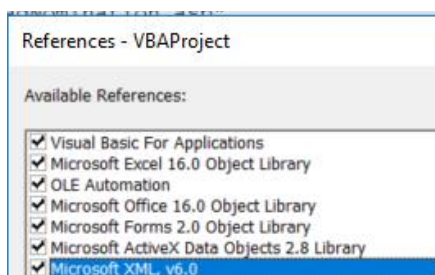
If the macros (VBA) are not authorized on your computer or by your company, please do not use this tool.

The code (Excel VBA) is freely available within Excel file (file MessageGenerationTool.xlsm). Therefore no help is provided to support this tool on your site

7.3. Pre-requisites

The following conditions apply:

- The tool can only be used on Microsoft Windows 10 or 11 operating systems.
- The "Message Generation Tool" is the Excel file "MessageGenerationTool.xlsm"
- This tool is available from : <https://www.elia.be/en/customers/customer-tools-and-extranet/nominations?csrt=10701613430223934687>
- The Excel file "MessageGenerationTool.xlsm" uses VBA macros. You must therefore follow any instructions given by your company or the Excel application to enable the macros to be run. If the macros (VBA) are not authorized on your Windows computer, please do not use this tool.
- The regional setting for your computer must be set to UK English. This is so that the correct interpretation of number values and dates is made.
- Numbers must be entered using the point (.) as the decimal separator and without commas (,)
E.g. 12345.6 NOT 12,345.6
- There are a set of libraries that are required:



- If your computer does not have some of these libraries, please do not use this tool

7.4. Using the Message Generation Tool

7.4.1. Starting up

1. Download the file *MessageGenerationTool.xlsm* from the location given above and open the file.
2. Follow any instruction given by Excel or your company in order to run the macros in the Excel file.
3. Click on the "Read-me" tab and enter the information required (see section 7.4.2).

Note! If any of the conditions defined in the section "7.3 Pre-requisites" p 59 are not met, then you will have to write yourself the CIM XML messages. You should therefore bypass this chapter;

7.4.2. Read-me sheet

The "Message Generation Tool" contains an initial worksheet entitled "Read-me". This sheet provides basic instructions and the opportunity to enter data that is common to all types of messages.

All fields that are "yellow" must be filled in.

The data required on this sheet are :

- Your BRP EIC code.
- Execution date (also called the delivery date)
This is automatically filled in to be the current date + 1 day.
You can enter another date however by specifying the required DD /MM /YYYY
This will appear in the CIM XML message in various fields in UTC (see below).
- Creation time
This is automatically generated to be the time when the Excel file is opened or refreshed.
This will appear in the CIM XML file as the "createdDateTime" in UTC (see below).
- The directory where the generated CIM XML message will be created
The CIM XML files generated by this tool can be viewed and saved in the location specified here. The directory entered in this field must exist and must be reachable. The User must have a read/write/modify access on this directory.

Once these fields have been completed, you can click on one of the tabs that corresponds to the type of nomination that you wish to generate. More detailed information on each of these is given in the corresponding sections 7.5 to 7.8

7.4.3. Viewing messages

When all the required fields have been completed for the type of nomination a number of operations are available:

[Create an additional time series]

When you click on this button a second time series will be created within the same message. It is a copy of the first. The parameters defined in the message header fields must apply to ALL time series, however the parameters contained within the time series fields can be modified. Exactly which fields can be modified is explained for each of the message types.

[Remove last additional time series]

This will remove the last time additional series that was added using the button above (if there are more than 1 time series)

[View XML File]

When you click on this button, the complete CIM XML file (as shown in the Excel sheet) is created and

saved in the directory specified on the "Read-me" sheet defined in section 7.4.2 and will be displayed in a separate window. The name of the file will be based on the fields in the file.

Note! You can copy this message and paste it on the B2B web testing page: Refer to "3.7 B2B E-nomination system – Web testing page " p 14

7.4.4. Dates and times – UTC

The Execution date is defined on the "Read me" sheet. It is set automatically by Excel to be the current date + 1 day. You can however enter, on the "Read me" sheet, any future date required by specifying the day, month and year. The Creation date is also set automatically to be the current time.

For any explanation about the UTC date and time, see section "4.1.3 Dates and times" p 18

7.4.5. Daylight saving

The Execution date and the corresponding Time Schedule Interval normally refers to a 24-hour day except for twice a year (See 4.1.3.2 "Daylight Saving Time" p18).

- On the last Sunday in March there are only 23 hours. This day begins at 23:00h on the Saturday and ends at 22:00h on the Sunday (UTC time).
- On the last Sunday in October, there are 25 hours. This day begins at 22:00h on the Saturday and ends at 23:00h on the Sunday (UTC time).

Example of schedule_Time_Period.timeInterval for a Day of 25 hours can be found in section "8.4 Schedule_MarketDocument example" p 71.

7.5. Injection nomination

To create a schedule message that corresponds to an Injection nomination you need to enter the following information:

- 1) *All the entry fields on the "Read-me" sheet (see section 7.4.2 above).*
- 2) *The version number – this must be 1 initially.
This same number will be used for the time series version number too.*
- 3) *The EAN code that identifies the Injection point (CIM XML element marketEvaluationPoint.mRID). Each time series is associated with one and only one injection point. You can create additional time series each with a different injection point: See section "4.1.4 Access points: Injection point or Offtake point " p 21*
- 4) *The schedule values. One value must be entered for each '15 minute' interval.*

Once all the values for a single time series have been entered you can click any of the buttons provided as described in section 7.4.3.

Note! To know the EAN code of injection points you can use, consult the related web page on Elia E-nomination web site or check your BRP contract.

7.6. Offtake nomination

To create a schedule message that corresponds to an Offtake nomination you need to enter the following information:

- 1) *All the entry fields on the "Read-me" sheet (see section 7.4.2 above).*
- 2) *The version number – this must be 1 initially.
This same number will be used for the time series version number too.*
- 3) *The EAN code that identifies the "Offtake point" (CIM XML element marketEvaluationPoint.mRID). Each time series is associated with one and only one offtake point. You can create additional time series each with a different offtake point: See section "4.1.4 Access points: Injection point or Offtake point " p 21*
- 4) *The schedule values. One value must be entered for each '15 minute' interval.*

Once all the values for a single time series have been entered you can click any of the buttons provided as described in section 7.4.3.

Note! To know the EAN code of offtake points you can use, consult the related web page on E-nomination web site or check your BRP contract.

7.7. Internal nomination

To create a schedule message that corresponds to an Internal nomination you need to enter the following information:

- 1) All the entry fields on the "Read-me" sheet (see section 7.4.2 above).
- 2) The version number – this must be 1 initially.
This same number will be used for the time series version number too.
- 3) Select whether you are creating a Day Ahead or an Intra-day schedule.
- 4) In the "Sell to" field, enter the EIC code of the BRP who is buying the energy.
- 5) In the "Buy from" field, enter the EIC code of the BRP who is selling the energy.
Of course, one and only one of these fields must contain your own BRP EIC code.
- 6) The Type of Internal nomination :
 - Default : "Classic" (A02).
 - "Regular" and "Flexible" could be also entered , if allowed by your BRP contract: See 6.3.1 "Internal nomination Flexible and Regular Parts" p29
- 7) The schedule values. One value must be entered for each 15 minute interval.

Once all the values for a single time series have been entered you can click any of the buttons provided as described in section 7.4.3.

7.8. External (International) nomination

Note! International nominations are only used on specific cases.

To create a schedule message that corresponds to an International nomination you need to enter the following information:

- 1) All the entry fields on the "Read-me" sheet (see section 7.4.2 above).
- 2) The version number – this must be 1 initially.
This same number will be used for the time series version number too.
- 3) Select whether you are creating a Day Ahead or an Intra-day schedule
- 4) Select the type of contract required.
Be very careful to select the correct type of contract that matches the domain you have chosen.
If the contract type does not match the requirements for the domain and time period (Intra-day or Day Ahead) your message will be incorrect and rejected by Elia.

The Contract corresponds with the field marketAgreement.mRID (See section 6.4.2 "Contract associated with International nominations." p31)

More details and examples of the parties involved in International transfers are given in Chapter 4.
- 5) Enter the EIC code of the Counterparty BRP in the other country.
Currently: this BRP EIC must be the same as the BRP EIC in Belgium.
- 6) Enter the capacity contract identification. This information is provided by the Capacity Allocator.
If not available, it can stay empty.
- 7) The schedule values. One value must be entered for each 60-minute interval.

Once all the values for a single time series have been entered you can click any of the buttons provided as described above in section 7.4.3.

7.9. Status Request

A Status Request message can be submitted in order to obtain:

- An Anomaly report
- A Confirmation report.

Note! Each of these reports is discussed in detail in Chapter 9.

The overall balancing process, indicating when Anomaly and Confirmation reports are requested is outlined in Chapter 5. The information referenced in the report matches the time period of the original Status Request Message.

It refers to the content of the Elia B2B E-nomination system at the request time and not to a particular Schedule message.

To create a Status Request message you need to enter the following information:

- 1) All the entry fields on the "Read-me" sheet (see section 7.4.2 above).
- 2) Select the type of Message you are requesting.
- 3) You must restrict the information contained in the requested report by specifying a specific process type.

Process type	Nomination type
A01	Day Ahead
A02 or A18	Intra-day International (2 codes A02 and A18 are equivalent and may be used in the same way)

- 4) You must restrict the information contained to a specific Execution date (exactly one day).
- 5) You can restrict the information contained in the requested report by specifying a specific Business type as listed below.

Business type	Attribute value
Injection	A01
Offtake	A04
Internal	A02
International	A03
All	All types of nominations. Default value: Not necessary to indicate this field
B09	Net Position
A73	Net Cross Border Total

- 6) You can restrict the information contained in the requested report by specifying a specific Domain as listed below.

Domain	Attribute value
France	10YFR-RTE-----C
Germany (Amprion area)	10YDE-RWENET---I
United Kingdom	10YGB-----A

Netherlands	10YNL-----L
-------------	-------------

Note! *If you requested international nominations and did not specify an Domain, then all Domain are taken into account.*

Once all the values have been entered you can click any of the buttons provided as described in section 7.4.3

Note! *An error could be returned indicating that the size of the returned report is too large. Elia advises to have Schedule message containing maximum maximum 50 TimeSeries elements*

Chapter 8. Messages sent from the BRP to Elia

This chapter is aimed primarily at developers of BRP's business applications to generate messages:

- *Schedule_MarketDocument (nominations) described in section 8.3*
- *StatusRequest_MarketDocument described in section 8.6.*

This chapter describes the CIM XML elements that are contained within the Schedule_MarketDocument and StatusRequest_MarketDocument. It lists each of the elements and indicates particular conditions that relate to each of them specifically in the Elia context.

More information can be found in the CIM Implementation guides from IEC: See "1.1 CIM – Electronic Scheduling System (ESS)" p5

Note! *Elia B2B E-nomination system never sends on its own initiative CIM XML messages. It always and only answers to the Schedule or Status Request messages sent by the BRP*

8.1. The Schemas

Details about the CIM XML Schemas (XSD) used to create this message are listed in Chapter 11.

Note! *It is important that a copy of the Schemas referenced in Chapter 11 are used, since these contain essential specific codes required by Elia.*

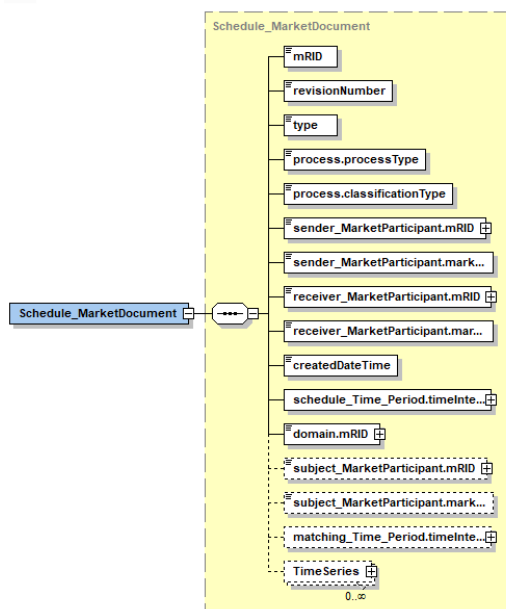
8.2. General rules

Here below some general rules that apply to all exchanged messages:

- *All messages must have a "UTF-8" encoding.*
- *Only following characters are allowed:*
 - *26 letters (uppercase or lowercase)*
 - *10 digits*
 - *Special characters: <, >, -, _, &, ;*
- *Only the EIC are accepted for the MarketParticipant.*
- *Only the EAN is accepted for the marketEvaluationPoint.mRID for the Injection or the Offtake point.*
- *The CIM XML standard does not define a limit to the number of TimeSeries allowed in one message (sharing the same header elements). However, in order to keep performances and response time acceptable, Elia reserves the right to set a limit to this number and will refuse any message having more than 50 TimeSeries. The number 50 is based on the experience, Elia could set a higher or lower number of TimeSeries based on new experiences.*
- *Any element indicated as optional in the section below can be:*
 - *Omitted completely*
 - *Only the element and no value*
 - *Defined completely with any data**In any case, it is not treated by the Elia B2B E-nomination system*

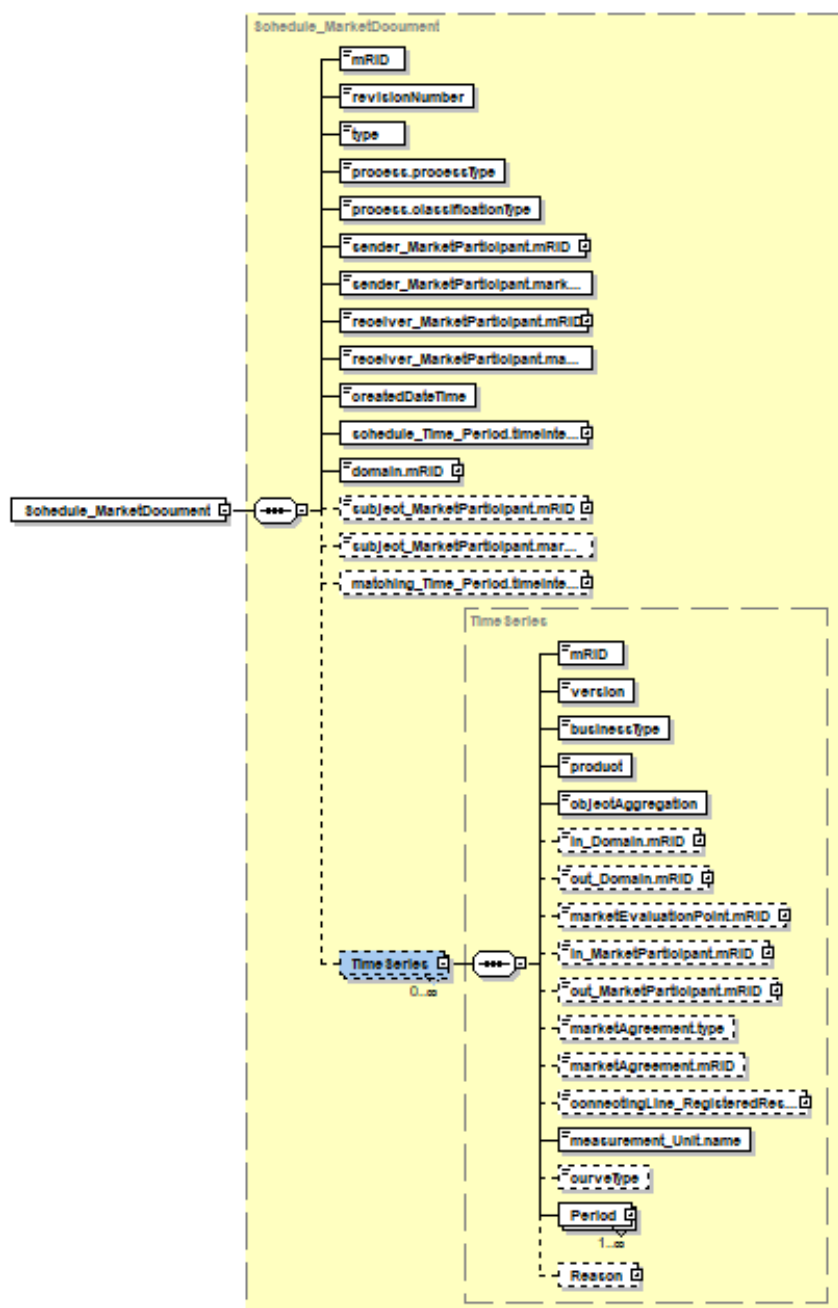
8.3. Schedule_MarketDocument

A Schedule_MarketDocument is the CIM XML message that must be used in order to submit the nominations. The structure of this message is described in detail in the IEC 62325-451-2 (see section 1.1 "CIM – Electronic Scheduling System (ESS)"); A schematic representation is shown below. It consists of a number of message header elements and a list of 'TimeSeries' elements



The message header elements apply to all the 'TimeSeries' that are contained within the message. Many of these header elements are mandatory and need to be expressed using pre-defined attribute values. The header elements are listed and described in section 8.3.2.

A Schedule message can contain a number of 'TimeSeries' (see related remark in 8.2 "General rules"). In addition to the actual series of energy values that comprise the nomination, the 'TimeSeries' also contains a series of general header elements. The information contained within the 'TimeSeries' header elements can be varied within each 'TimeSeries'. The overall structure is shown on next page.



The header elements for the schedule 'TimeSeries' are listed and described in section 8.3.3. The elements used for the Period element of the message are listed and described in section 8.3.4

8.3.1. Schedule message XML Namespace

The namespace for all XML elements is `urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:1`

Please note that standards namespaces are also advised :

- `xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
- `xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`

8.3.2. Schedule message header elements

This section lists the elements that are used in the Schedule message header, shown in Figure above.

Note!

- All the values indicated here below are specific for a nomination submitted to Elia B2B E-nomination system by a BRP.
- Each of these elements are described in the IEC 62325-451-2 (see section 1.1 “CIM – Electronic Scheduling System (ESS)”).

Element name	Meaning	Remarks
mRID	Unique identifier for the message.	This element is Mandatory. It must be unique for any day. This is a free string with maximum 60 characters Only following characters are accepted: lowercase ASCII letters, uppercase ASCII letters, digits and hyphen
revisionNumber	Version number for the message.	This element is Mandatory. It must be an increasing integer starting at 1. The version number of the message must match the highest version of a time series contained in the message This number can be maximum 999
type	Code for the type of message.	This element is Mandatory. The value must be “A01”.
process.processType	Code for the process type.	This element is Mandatory. The values required for specific message types are listed in Chapter 6.
process.classificationType	Defines whether the schedule is an aggregation or a classification.	This element is Mandatory. The value must be “A01”.
sender_MarketParticipant.mRID	It consists of a unique identifier for the sender of the message (BRP)	This element is Mandatory. The value must be the BRP EIC code. The value of the coding scheme must be “A01”.
sender_MarketParticipant.marketRole.type	Identifies the role of the sender	This element is Mandatory. The value must be “A08”.
receiver_MarketParticipant.mRID	Identifies the receiver of the message. This element is Mandatory. It consists of a coding scheme entry and a unique identifier for the receiver (Elia).	The value must be “10X1001A1001A094” The value of the coding scheme must be “A01”.
receiver_MarketParticipant.marketRole.type	Identifies the role of the receiver	This element is Mandatory. The value must be “A04”

createdDateTime	Date and time at which the message was submitted	This element is Mandatory. Time values must be expressed in UTC. See section "4.1.3.1 Created Date and Time " p 18
schedule_Time_Period.timeInterval	The Execution date: The start and end times to which the current schedule refers	This element is Mandatory. Both the start and end time must be expressed in UTC. See section "4.1.3.3 Execution date " p 20
domain.mRID	The domain to which the current schedule refers	This element is Mandatory. The value must be "10YBE-----2" The value of the coding scheme must be "A01".

8.3.3. Schedule TimeSeries elements

This section lists the elements that are used in the ScheduleTimeSeries header, shown in Figure above

Note!

- Each of these elements are described in the IEC 62325-451-2 (see section 1.1 "CIM – Electronic Scheduling System (ESS)")
- Lists of the enumerated attribute values that the elements are available. See appendix A.

Element name	Meaning	Remarks
mRID	Sender's identification of the time series.	This element is Mandatory. It must be unique for the day and all messages. This can be a free string This string can have maximum of 60 characters.
version	The version number of the time series	This element is Mandatory. It must be an increasing integer starting at 1. It must be the same version as the header revisionNumber. This number can be maximum 999
businessType	Identifies the trading nature of the time series	This element is Mandatory. The code values required for specific message types are listed in Chapter 6.
product	Identifies the type of energy	This element is Mandatory. The value must be "8716867000016"
objectAggregation	Identifies how the object is aggregated	This element is Mandatory. The value must be "A03"
in_Domain.mRID	The Domain / business area where the product is taken in (delivered)	This element is Mandatory for an International nomination The values required for specific message types are given in Chapter 6. For other nominations types, it can be omitted.

out_Domain.mRID	The Domain/business area from where the product is being taken out (supplied)	This element is Mandatory for an International nominations The code values required for specific message types are given in Chapter 6. For other nominations types, it is optional and can be omitted.
marketEvaluationPoint.mRID	EAN code identifying the injection or offtake point.	This element is Mandatory for an Injection or an Offtake nomination (see Chapter 6). This value must be the EAN code of the Injection or Offtake point. For other nominations types, it can be omitted.
in_MarketParticipant.mRID	Party taking in the product (buyer)	This element is Mandatory for Internal or International nominations (see Chapter 6). It corresponds to the party buying the energy. The value must be the EIC code of that party. For other nominations types, it can be omitted.
out_MarketParticipant.mRID	Party sending out the product (seller)	This element is Mandatory for Internal or International nominations. It corresponds to the party selling the energy. The value must be the EIC code of that party. For other nominations types, it can be omitted.
marketAgreement.type	Defines conditions for capacity	This element is Mandatory for International nominations. See Chapter 6 for more details. For other nominations types, it can be omitted.
marketAgreement.mRID	Identifies agreement for capacity allocation	This element is Mandatory for International Intra-day nominations. See 6.4.2 "Contract associated with International nominations." p31 For other nominations types, it can be omitted.
measurement_Unit.name	Unit in which the quantities are expressed	This element is Mandatory. The value must be "MAW"

Table 1 Schedule message time series elements

8.3.4. Period elements

This section lists the elements that are used in the Period element of the ScheduleTimeSeries.

Note! Each of these elements are described in the IEC 62325-451-2 (see section 1.1 “CIM – Electronic Scheduling System (ESS)”)

Element name	Meaning	Remarks
timeInterval	The start and the end time for the series	This must be equal to the Schedule time interval (see section 8.3.2)
resolution	Amount of time for each interval in which a data value is defined	Elia requires that the resolution must be defined in minutes. Elia advises to use the resolution of 15 minutes for any types of nominations: The values must then be “PT15M”
Point	One Point is required for each {Time Interval / resolution}.	See "8.3.5 Number of “Point” " p 71
position	Relative position of the interval in the schedule time interval	A series of integer values for each of the intervals.
quantity	The quantity of the product	The quantity must be expressed in MAW. It must be in the range [0.0-9999.9]

Table 2 Schedule message period elements

8.3.5. Number of “Point”

For all types of nominations, the interval must be a quarter of an hour (15 minutes).
Daylight saving must be taken into account which means that the following cases are possible.

Type of day	Number of quarter-hourly values	Number of hourly values
Normal day	96 'Point' with 'position' values from 1 to 96	24 'Point' with 'position' values from 1 to 24
Day light change from summer to winter	100 'Point' with 'position' values from 1 to 100	25 'Point' with 'position' values from 1 to 25
Day light change from winter to summer	92 'Point' with 'position' values from 1 to 92	23 'Point' with 'position' values from 1 to 23

Table 3 Number of intervals in a day

Note! The IDA3 must also contain the complete period of one day. The 12 first 'Points' quantity elements must be set to 0.

8.4. Schedule_MarketDocument example

Following example describes a Schedule message with one Internal Day Ahead time series for Execution date 28/10/2018 (Daily Switching time from summer to winter time) concerning BRP 11X-BRP-EXAMPLEX who is buying energy from BRP 22XBRP-EXAMPLE26

```
<Schedule_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <mRID>12345678901234567890123</mRID>
  <revisionNumber>2</revisionNumber>
  <type>A01</type>
```

```

    <process.processType>A01</process.processType>
    <Process.classificationType>A01</Process.classificationType>
    <Sender_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</sender_MarketParticipant.mRID>
    <sender_MarketParticipant.marketRole.type>A08</sender_MarketParticipant.marketRole.type>
    <receiver_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</receiver_MarketParticipant.mRID>
    <receiver_MarketParticipant.marketRole.type>A04</receiver_MarketParticipant.marketRole.typ
e>

    <createdDateTime>2018-10-26T17:31:00Z</createdDateTime>
    <schedule_Time_Period.timeInterval>
        <start>2018-10-27T22:00Z</start>
        <end>2018-10-28T23:00Z</end>
    </schedule_Time_Period.timeInterval>
    <domain.mRID codingScheme="A01">10YBE-----2</domain.mRID>
    <TimeSeries>
        <mRID>31</mRID>
        <version>2</version>
        <businessType>A02</businessType>
        <product>8716867000016</product>
        <objectAggregation>A03</objectAggregation>
        <in_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</in_MarketParticipant.mRID>
        <out_MarketParticipant.mRID codingScheme="A01">22XBRP-
EXAMPLE26</out_MarketParticipant.mRID>
        <measurement_Unit.name>MAW</measurement_Unit.name>
        <Period>
            <timeInterval>
                <start>2018-10-27T22:00Z</start>
                <end>2018-10-28T23:00Z</end>
            </timeInterval>
            <resolution>PT15M</resolution>
            <Point>
                <position>1</position>
                <quantity>11</quantity>
            </Point>
            ... other <Point> elements ...
            <Point>
                <position>100</position>
                <quantity>22</quantity>
            </Point> <!-- due to DST (Summer to Winter), there are 100 and not 96
'Point' elements -->
        </Period>
    </TimeSeries>
</Schedule_MarketDocument>

```

8.5. Schedule_MarketDocument with more than 1 type of nomination - example

It is possible to send for the same process (Day Ahead or Intra-day) many types of nominations

- *Offtake, Injection, internal Day Ahead, External (Day Ahead) for the process Day Ahead*
- *Internal Intra-day and Cross Border Intra-day for the process Intra-day*

In the example below, the BRP 11X-BRP-EXAMPLEX sends one Schedule_MarketDocument Day Ahead to Elia (10X1001A1001A094) . This document contains:

- *1 Injection on Access Point 541453104512600683*
- *1 International From Belgium to Germany*
- *1 offtake on Access Point 541453104512600713*
- *1 Internal from 11X-BRP-EXAMPLEX to 22XBRPC-----R*

```
<Schedule_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:1
https://nedil.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-2-schedule_v5_1.xsd">
  <mRID>1_20202420200203135745</mRID>
  <revisionNumber>1</revisionNumber>
  <type>A01</type>
  <process.processType>A01</process.processType>
  <process.classificationType>A01</process.classificationType>
  <sender_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</sender_MarketParticipant.mRID>
  <sender_MarketParticipant.marketRole.type>A08</sender_MarketParticipant.marketRole.type>
  <receiver_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</receiver_MarketParticipant.mRID>
  <receiver_MarketParticipant.marketRole.type>A04</receiver_MarketParticipant.marketRole.typ
e>
  <createdDateTime>2020-02-03T13:57:45Z</createdDateTime>
  <schedule_Time_Period.timeInterval>
    <start>2020-02-03T23:00Z</start>
    <end>2020-02-04T23:00Z</end>
  </schedule_Time_Period.timeInterval>
  <domain.mRID codingScheme="A01">10YBE-----2</domain.mRID>
  <TimeSeries>
    <mRID>14_InjectDA__20200203135745</mRID>
    <version>6</version>
    <businessType>A01</businessType>
    <product>8716867000016</product>
    <objectAggregation>A03</objectAggregation>
    <!-- No InArea in a InjectDA-->
    <!-- No OutArea in a InjectDA-->
    <marketEvaluationPoint.mRID
codingScheme="A10">541453104512600683</marketEvaluationPoint.mRID>
    <!-- in_MarketParticipant.mRID in a InjectDA-->
    <!-- out_MarketParticipant.mRID in a InjectDA-->
    <!-- No contract in a InjectDA-->
    <measurement_Unit.name>MAW</measurement_Unit.name>
    <Period>
      <timeInterval>
        <start>2020-02-03T23:00Z</start>
        <end>2020-02-04T23:00Z</end>
      </timeInterval>
      <resolution>PT15M</resolution>
      <Point>
        <position>1</position>
        <quantity>9.9</quantity>
      </Point>
      <Point>
```

```

        <position>96</position>
        <quantity>6.4</quantity>
    </Point>
</Period>
</TimeSeries>
<TimeSeries>
    <mRID>14_XBDA__20200203135745</mRID>
    <version>6</version>
    <businessType>A03</businessType>
    <product>8716867000016</product>
    <objectAggregation>A03</objectAggregation>
    <in_Domain.mRID codingScheme="A01">10YDE-RWENET---I</in_Domain.mRID>
    <out_Domain.mRID codingScheme="A01">10YBE-----2</out_Domain.mRID>
    <!-- No marketEvaluationPoint.mRID in a XBDA-->
    <in_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</in_MarketParticipant.mRID>
    <out_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</out_MarketParticipant.mRID>
    <!-- Daily nom B-012-04-00403-->
    <marketAgreement.type>A01</marketAgreement.type>
    <marketAgreement.mRID/>
    <measurement_Unit.name>MAW</measurement_Unit.name>
    <Period>
        <timeInterval>
            <start>2020-02-03T23:00Z</start>
            <end>2020-02-04T23:00Z</end>
        </timeInterval>
        <resolution>PT15M</resolution>
        <Point>
            <position>1</position>
            <quantity>855.7</quantity>
        </Point>
        ... etc ...
        <Point>
            <position>96</position>
            <quantity>849.3</quantity>
        </Point>
    </Period>
</TimeSeries>
<TimeSeries>
    <mRID>14_LOADDA__20200203135745</mRID>
    <version>6</version>
    <businessType>A04</businessType>
    <product>8716867000016</product>
    <objectAggregation>A03</objectAggregation>
    <!-- No InArea in a LOADDA-->
    <!-- No OutArea in a LOADDA-->
    <marketEvaluationPoint.mRID
codingScheme="A10">541453104512600713</marketEvaluationPoint.mRID>
    <!-- in_MarketParticipant.mRID in a LOADDA-->
    <!-- out_MarketParticipant.mRID in a LOADDA-->
    <!-- No contract in a LOADDA-->
    <measurement_Unit.name>MAW</measurement_Unit.name>

```

```

        <Period>
            <timeInterval>
                <start>2020-02-03T23:00Z</start>
                <end>2020-02-04T23:00Z</end>
            </timeInterval>
            <resolution>PT15M</resolution>
            <Point>
                <position>1</position>
                <quantity>7.3</quantity>
            </Point>
            ... etc ...
            <Point>
                <position>96</position>
                <quantity>8.2</quantity>
            </Point>
        </Period>
    </TimeSeries>
    <TimeSeries>
        <mRID>l2_HUB__20200203135746</mRID>
        <version>6</version>
        <businessType>A02</businessType>
        <product>8716867000016</product>
        <objectAggregation>A03</objectAggregation>
        <!-- No InArea in a HUB-->
        <!-- No OutArea in a HUB-->
        <!-- No marketEvaluationPoint.mRID in a HUB-->
        <in_MarketParticipant.mRID codingScheme="A01">22XBRPC-----
R</in_MarketParticipant.mRID>
        <out_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</out_MarketParticipant.mRID>
        <measurement_Unit.name>MAW</measurement_Unit.name>
        <Period>
            <timeInterval>
                <start>2020-02-03T23:00Z</start>
                <end>2020-02-04T23:00Z</end>
            </timeInterval>
            <resolution>PT15M</resolution>
            <Point>
                <position>1</position>
                <quantity>0</quantity>
            </Point>
            ... etc ...
            <Point>
                <position>96</position>
                <quantity>0</quantity>
            </Point>
        </Period>
    </TimeSeries>
</Schedule_MarketDocument>

```

The related response from the Elia B2B nomination system is given on section "9.2.3 Acknowledgement message example " p 95

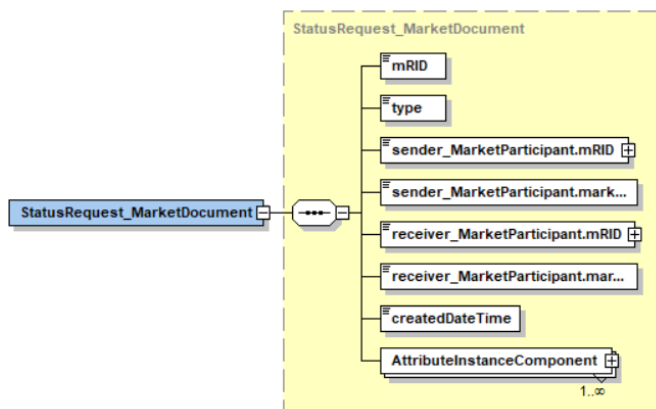
8.6. StatusRequest_MarketDocument

A StatusRequest_MarketDocument can be submitted in order to obtain:

- an Anomaly report.
- a Confirmation report

The overall process of sending and receiving messages is described in Chapter 5.

The Schema associated with the StatusRequest_MarketDocument is:



Note! Please note that to avoid Denial Of Service, the Elia B2B E-nomination system answers only to any request from the same BRP at a maximum frequency. This frequency can change without notice. Any request above this frequency is ignored. Currently, only one StatusRequest message each 5 minutes is allowed.

8.6.1. StatusRequest message XML Namespace

The namespace for all XML elements is `urn:iec62325.351:tc57wg16:451-5:statusrequestdocument:4:0`

Please note that standards namespaces are also advised :

- `xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
- `xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`

8.6.2. StatusRequest message header elements

The StatusRequest_MarketDocument contains the following elements.

Note! Each of these elements are described in the IEC 62325-451-5 (see section 1.1 “CIM – Electronic Scheduling System (ESS)”)

Element name	Meaning	Remarks
mRID	A unique identification for the Status Request message.	This element is Mandatory. It must be unique for any day. This is a free string with maximum of 60 characters Only following characters are accepted: lowercase ASCII letters, uppercase ASCII letters, digits and hyphen
type	A code identifying the message.	This element is Mandatory. The value must be A60

Element name	Meaning	Remarks
sender_MarketParticipant.mRID	Element identifying the sender of the message It consists of a coding scheme entry and a unique identifier for the sender.	This element is Mandatory. The value must be the BRP EIC code. The value of the code scheme must be "A01".
sender_MarketParticipant.marketRole.type	Identifies the role of the sender.	This element is Mandatory. The value of the code must be "A08"
receiver_MarketParticipant.mRID	Identifies the receiver of the message.	This element is Mandatory. It consists of a coding scheme entry and a unique identifier for the receiver (Elia). The value must be "10X1001A1001A094" The value of the coding scheme must be "A01".
receiver_MarketParticipant.marketRole.type	Identifies the role of the receiver	This element is Mandatory. The value must be "A04"
createdDateTime	Date and time at which the Status Request was submitted	This element is Mandatory. Time values must be expressed in UTC See "4.1.3.1 Created Date and Time " p 18
attributeInstanceComponent	Defines the type of report that is sent in response to the Status Request.	Multiple instances of this element are possible and some are Mandatory. Possible values are given in section 8.6.3

Table 4 Status Request message elements

8.6.3. AttributeInstanceComponent

The StatusRequest_MarketDocument may contain the following AttributeInstanceComponent

There is no order mandatory for the list of these AttributeInstanceComponent

8.6.3.1. The RequestedReturnDocumentType

The RequestedReturnDocumentType defines the type of report to receive (see "Messages response from Elia to the BRP" p 92 for information about these types of reports).

Note! The combination of some Document type, Process type and Business type will give an error as answer. See 8.6.4 "AttributeInstanceComponent Dependency matrices" p80 for the allowed combinations.

Property	Description
Attribute name	RequestedReturnDocumentType
Cardinality	Optional. Default is 'Confirmation report' A07
CodingScheme	Z02
Attribute Value	Possible values:

Property	Description	
	Report	Code
	Confirmation report	A07
	Anomaly report	A16

Example: the request for the Confirmation report is:

```
<AttributeInstanceComponent>
  <attribute>RequestedReturnDocumentType</attribute>
  <attributeValue codingScheme="Z02">A07</attributeValue>
</AttributeInstanceComponent>
```

8.6.3.2. The ProcessType

Restricts the contents of the report to a specific process.

Note! The combination of some Document type, Process type and Business type will give an error as answer. See 8.6.4 "AttributeInstanceComponent Dependency matrices" p80 for the allowed combinations.

Attribute name	ProcessType		
Cardinality	Optional. Default is "A01" (Day Ahead)		
CodingScheme	Z03		
Attribute Value	Possible values:		
	Process Type	Code	Description
	Day Ahead	A01	All and only the nominations that are Day Ahead
	Intra-day	A02 or A18	All and only the nominations that are ID and IDA
	Aggregated (Day Ahead and Intra-day)	A17	All the nominations: Intra-day and Day Ahead

Example: the request for the Intra-day process type is:

```
<AttributeInstanceComponent>
  <attribute>ProcessType</attribute>
  <attributeValue codingScheme="Z03">A02</attributeValue>
</AttributeInstanceComponent>
```

8.6.3.3. The DateAndOrTime

Defines the Execution Date: the time interval to be contained in the report (exactly one day is accepted)

Attribute name	DateAndOrTime
Cardinality	Mandatory
CodingScheme	Z01
Attribute Value	Possible values: exactly one date The date value is expressed with a simplified format "YYYY-MM-DD" (with added "0" if needed)

Example: the request for the 5/1/2027 is:

```
<AttributeInstanceComponent>
  <attribute>DateAndOrTime</attribute>
  <attributeValue codingScheme="Z01">2027-01-05</attributeValue>
</AttributeInstanceComponent>
```

8.6.3.4. The BusinessType

The possible nomination type or aggregated position.

Note! The combination of some Document type, Process type and Business type will give an error as answer. See 8.6.4 "AttributeInstanceComponent Dependency matrices" p80 for the allowed combinations.

Property	Description																
Attribute name	BusinessType																
Cardinality	Optional. Default is "All"																
CodingScheme	Z03																
Attribute Value	Possible values: <table border="1"> <thead> <tr> <th>Nomination type</th><th>Code</th></tr> </thead> <tbody> <tr> <td>Injection nomination</td><td>A01</td></tr> <tr> <td>Offtake nomination</td><td>A04</td></tr> <tr> <td>Internal nomination (total)</td><td>A02</td></tr> <tr> <td>International nomination</td><td>A03</td></tr> <tr> <td>All</td><td>A11</td></tr> <tr> <td>Net Position</td><td>B09</td></tr> <tr> <td>Summarised Market Balance Area Schedule (International aggregated netted value)</td><td>A73</td></tr> </tbody> </table>	Nomination type	Code	Injection nomination	A01	Offtake nomination	A04	Internal nomination (total)	A02	International nomination	A03	All	A11	Net Position	B09	Summarised Market Balance Area Schedule (International aggregated netted value)	A73
Nomination type	Code																
Injection nomination	A01																
Offtake nomination	A04																
Internal nomination (total)	A02																
International nomination	A03																
All	A11																
Net Position	B09																
Summarised Market Balance Area Schedule (International aggregated netted value)	A73																

8.6.3.5. The Resolution

The possible Resolutions:

Property	Description						
Attribute name	Resolution						
Cardinality	Optional. Default is A61 "Quarter"						
CodingScheme	Z03						
Attribute Value	Possible values: <table border="1"> <thead> <tr> <th>Resolution</th><th>Code</th></tr> </thead> <tbody> <tr> <td>Hourly values</td><td>A60</td></tr> <tr> <td>Quarter hourly values</td><td>A61</td></tr> </tbody> </table>	Resolution	Code	Hourly values	A60	Quarter hourly values	A61
Resolution	Code						
Hourly values	A60						
Quarter hourly values	A61						

Calculation from one Resolution to the other:

If the original nomination was given with a resolution of...	And the Report is requested with a resolution of ...	Algorithm
--	--	-----------

15 minutes	15 minutes	None (same values)
15 minutes	60 minutes	Hourly value returned is the <u>third quarter</u> of the hour
60 minutes	15 minutes	Quarter hourly value returned is the <u>same</u> as the hourly value
60 minutes	60 minutes	None (same values)

Example: the request for the hourly value is:

```
<AttributeInstanceComponent>
  <attribute>Resolution</attribute>
  <attributeValue codingScheme="Z03">A60</attributeValue>
</AttributeInstanceComponent>
```

8.6.3.6. The Domain

The possible Areas for International nominations

Property	Description										
Attribute name	Domain										
Cardinality	Optional. If not present, international nominations (if required) are returned for All Areas Useless if no International nominations must be returned										
CodingScheme	A01										
Attribute Value	Possible values: <table border="1"> <thead> <tr> <th>Area</th><th>Code</th></tr> </thead> <tbody> <tr> <td>France</td><td>10YFR-RTE-----C</td></tr> <tr> <td>Germany (Amprion Area)</td><td>10YDE-RWENET---I</td></tr> <tr> <td>Netherlands</td><td>10YNL-----L</td></tr> <tr> <td>United Kingdom</td><td>10YGB-----A</td></tr> </tbody> </table>	Area	Code	France	10YFR-RTE-----C	Germany (Amprion Area)	10YDE-RWENET---I	Netherlands	10YNL-----L	United Kingdom	10YGB-----A
Area	Code										
France	10YFR-RTE-----C										
Germany (Amprion Area)	10YDE-RWENET---I										
Netherlands	10YNL-----L										
United Kingdom	10YGB-----A										

Example:

```
<AttributeInstanceComponent>
  <attribute>Domain</attribute>
  <attributeValue codingScheme="A01">10YFR-RTE-----C</attributeValue>
</AttributeInstanceComponent>
```

8.6.4. AttributeInstanceComponent Dependency matrices

The following sections summarises the returned information using a given Document type and a Process Type.

Note! Base information is given in :

- 8.6.3.2 "The ProcessType" p78.
- 8.6.3.4 "The BusinessType" p79 that give the possible Business types associated with each possible Process type

8.6.4.1. Confirmation Document for Process Type A01 – Day Ahead

The following table indicates all the possible combinations where the

- Document type = A07 (Confirmation report)
- Process Type = A01 (Day Ahead)

Business Type	Resolution	Returned information
A01 (Injection nomination)	A60 (hourly values)	Confirmation report containing all existing Injection Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day).
A01 (Injection nomination)	A61 (quarter hourly values)	Confirmation report containing all existing Injection Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
A04 (Offtake nomination)	A60 (hourly values)	Confirmation report containing all existing Offtake Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day)
A04 (Offtake nomination)	A61 (quarter hourly values)	Confirmation report containing all existing Offtake Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
A02 (Internal nomination)	A60 (hourly values)	Confirmation report containing all existing Internal Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day).
A02 (Internal nomination)	A61 (quarter hourly values)	Confirmation report containing all existing Internal Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day).
A03 (International nomination)	A60 (hourly values)	Confirmation report containing all existing International Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day). Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations. Note! The IDA nominations are Intra-day and are not returned by this report.
A03 (International nomination)	A61 (quarter hourly values)	Confirmation report containing all existing International Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day). Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations Note! The IDA nominations are Intra-day and are not returned by this report.
All	A60 (hourly values)	Confirmation report containing the list of all existing Day Ahead (Injection, Offtake, Internal, International) nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day). Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations
All	A61 (quarter hourly values)	Confirmation report containing the list of all existing Day Ahead (Injection, Offtake, Internal, International) nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day). Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations
B09 (Net Position)	A60 (hourly values)	Confirmation report containing the BRP Imbalance Day Ahead using only the existing Day Ahead nominations (Injection, Offtake, confirmed Internal, confirmed International, Generation) which are known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day). Please note that tolerance and status are not returned

Business Type	Resolution	Returned information
B09 (Net Position)	A61 (quarter hourly values)	Confirmation report containing the BRP Imbalance Day Ahead using only the existing Day Ahead nominations (Injection, Offtake, confirmed Internal, confirmed International, Generation) which are known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Please note that tolerance and status are not returned
A73 (Net XB Total)	A60 (hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Day Ahead using only the existing International Day Ahead nominations which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution with hourly resolution (23, 24 or 25 values depending on the day)
A73 (Net XB Total)	A61 (quarter hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Day Ahead using only the existing International Day Ahead nominations which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day).

8.6.4.2. Anomaly Document for Process Type A01 – Day Ahead

The following table indicates all the possible combinations where the

- Document type = A16 (Anomaly report)
- Process Type = A01 (Day Ahead)

Business Type	Resolution	Returned information
A01 (Injection nomination)	A60 (hourly values)	Anomaly report containing all incorrect existing Injection Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! This report is always empty because when accepted an injection nomination is correct
A01 (Injection nomination)	A61 (quarter hourly values)	Anomaly report containing all incorrect existing Injection Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! This report is always empty because when accepted an injection nomination is correct
A04 (Offtake nomination)	A60 (hourly values)	Anomaly report containing all incorrect existing Offtake Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! This report is always empty because when accepted an offtake nomination is correct
A04 (Offtake nomination)	A61 (quarter hourly values)	Anomaly report containing all incorrect existing Offtake Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! This report is always empty because when accepted an offtake nomination is correct
A02 (Internal nomination)	A60 (hourly values)	Anomaly report containing all existing Internal Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) whose matching state is not 'Balance OK' or 'Zero WFC'
A02 (Internal nomination)	A61 (quarter hourly values)	Anomaly report containing all existing Internal Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) whose matching state is not 'Balance OK' or 'Zero WFC'
A03 (International nomination)	A60 (hourly values)	Anomaly report containing all incorrect existing International Day Ahead international nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! The field marketAgreement.mRID is now returned for International nominations. Note! The IDA nominations are Intra-day nominations and are not returned by this report.
A03 (International nomination)	A61 (quarter hourly values)	Anomaly report containing all incorrect existing International Day Ahead nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! The field marketAgreement.mRID is now present for International nominations. Note! The IDA nominations are Intra-day nominations and are not returned by this report.
All	A60 (hourly values)	Anomaly report containing all incorrect existing Day Ahead nomination(s) (Injection, Offtake, Internal, International) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day). Note! The field marketAgreement.mRID is now present for International nominations. Note! The IDA nominations are Intra-day nominations and are not returned by this report.
All	A61 (quarter hourly values)	Anomaly report containing all incorrect existing Day Ahead nomination(s) (Injection, Offtake, Internal, International) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day). Note! The field marketAgreement.mRID is now present for International nominations. Note! The IDA nominations are Intra-day nominations and are not returned by this report.

Business Type	Resolution	Returned information
B09 (Net Position)	A60 (hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and Business type B09 is forbidden
B09 (Net Position)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and and Business type B09 is forbidden
A73 (Net XB Total)	A60 (hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and and Business type A73 is forbidden
A73 (Net XB Total)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and and Business type A73 is forbidden

8.6.4.3. Confirmation Document for Process Type A02 or A18 – Intra-day

The following table indicates all the possible combinations where the:

- Document type = A07 (Confirmation report)
- Process Type = A02 or A18 (Intra-day)

Note! Both codes A02 or A18 can be used: they return the same result

Business Type	Resolution	Returned information
A01 (Injection nomination)	A60 (hourly values)	Acknowledge document with an error: Injection Intra-day nomination(s) do not exist
A01 (Injection nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Injection Intra-day nomination(s) do not exist
A04 (Offtake nomination)	A60 (hourly values)	Acknowledge document with an error: Offtake Intra-day nomination(s) do not exist
A04 (Offtake nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Offtake Intra-day nomination(s) do not exist
A02 (Internal nomination)	A60 (hourly values)	Confirmation report containing all existing Internal Intra-day nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day)
A02 (Internal nomination)	A61 (quarter hourly values)	Confirmation report containing all existing Internal Intra-day nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
A03 (International nomination)	A60 (hourly values)	Confirmation report containing all existing International Intra-day nomination(s) (included the IDA1, IDA2 and IDA3) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations
A03 (International nomination)	A61 (quarter hourly values)	Confirmation report containing all existing International Intra-day nomination(s) (included the IDA1, IDA2 and IDA3) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! The field <i>Confirmed_TimeSeries.marketAgreement.mRID</i> is now present for International nominations
B09 (Net Position)	A60 (hourly values)	Acknowledge document with an error: the Net position does not exists in Intraday
B09 (Net Position)	A61 (quarter hourly values)	Acknowledge document with an error: the Net position does not exists in Intraday)
A73 (Net XB Total)	A60 (hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Intra-day using only the existing International Intra-day nominations (included the IDA1, IDA2 and IDA3) which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution with hourly resolution (23, 24 or 25 values depending on the day)

Business Type	Resolution	Returned information
A73 (Net XB Total)	A61 (quarter hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Intra-day using only the existing International Intra-day nominations (included the IDA1, IDA2 and IDA3) which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
All	A60 (hourly values)	Confirmation report containing all existing Intra-day (Internal, International (included the IDA1, IDA2 and IDA3)) nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day)
All	A61 (quarter hourly values)	Confirmation report containing all existing Intra-day (Internal, International (included the IDA1, IDA2 and IDA3)) nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)

8.6.4.4. Anomaly Document for Process Type A02 or A18 – Intra-day

The following table indicates all the possible combinations where the request contains:

- Document type = A16 (Anomaly report)
- Process Type = A02 or A18 (Intra-day)

Note! Both codes A02 or A18 can be used: they return the same result

Business Type	Resolution	Returned information
A01 (Injection nomination)	A60 (hourly values)	Acknowledge document with an error: Injection Intra-day nomination(s) do not exist
A01 (Injection nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Injection Intra-day nomination(s) do not exist
A04 (Offtake nomination)	A60 (hourly values)	Acknowledge document with an error: Offtake Intra-day nomination(s) do not exist
A04 (Offtake nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Offtake Intra-day nomination(s) do not exist
A02 (Internal nomination)	A60 (hourly values)	Anomaly report containing incorrect existing Internal Intra-day nomination(s) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day)
A02 (Internal nomination)	A61 (quarter hourly values)	Anomaly report containing incorrect existing Internal Intra-day nomination(s) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
A03 (International nomination)	A60 (hourly values)	Anomaly report containing all incorrect existing International Intra-day nomination(s) (included the IDA1, IDA2 and IDA3) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! The field <i>marketAgreement.mRID</i> is now present for International nominations
A03 (International nomination)	A61 (quarter hourly values)	Anomaly report containing all incorrect existing International Intra-day nomination(s) (included the IDA1, IDA2 and IDA3) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! The field <i>marketAgreement.mRID</i> is now present for International nominations
All	A60 (hourly values)	Anomaly report containing all incorrect existing Intra-day nomination(s) (Internal, International) known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day) Note! The field <i>marketAgreement.mRID</i> is now present for International nominations
All	A61 (quarter hourly values)	Anomaly report containing all incorrect existing Intra-day nomination(s) (Internal, International) known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day) Note! The field <i>marketAgreement.mRID</i> is now present for International nominations
B09 (Net Position)	A60 (hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and Business type B09 is forbidden
B09 (Net Position)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and Business type B09 is forbidden

Business Type	Resolution	Returned information
A73 (Net XB Total)	A60 (hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and Business type A73 is forbidden
A73 (Net XB Total)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Document type A16 (Anomaly report) and Business type A73 is forbidden

8.6.4.5. Confirmation Document for Process Type A17 – Global: Day Ahead and Intra-day

The following table indicates all the possible combinations where the request contains:

- Document type = A07 (Confirmation report)
- Process Type = A17 (Global / Day Ahead and Intra-day)

Business Type	Resolution	Returned information
A01 (Injection nomination)	A60 (hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A01 is forbidden
A01 (Injection nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A01 is forbidden
A04 (Offtake nomination)	A60 (hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A04 is forbidden
A04 (Offtake nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A04 is forbidden
A02 (Internal nomination)	A60 (hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A02 is forbidden
A02 (Internal nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A02 is forbidden
A03 (International nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A03 is forbidden
A03 (International nomination)	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type A03 is forbidden
All	A60 (hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type ALL is forbidden
All	A61 (quarter hourly values)	Acknowledge document with an error: Combination of Process Type A17 and Business type ALL is forbidden
B09 (Net Position)	A60 (hourly values)	Confirmation report containing the BRP Imbalance Global (Day Ahead and Intra-day) using only the existing Day Ahead and Intra-day nominations (Injection, Offtake, Internal, International (included IDA1, IDA2 and IDA3) , Generation) which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with hourly resolution (23, 24 or 25 values depending on the day)
B09 (Net Position)	A61 (quarter hourly values)	Confirmation report containing the BRP Imbalance Global (Day Ahead and Intra-day) using only the existing Day Ahead and Intra-day nominations (Injection, Offtake, Internal, International (included IDA1, IDA2 and IDA3) , Generation) which are confirmed and

Business Type	Resolution	Returned information
		known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)
A73 (Net XB Total)	A60 (hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Day Ahead and Intra-day using only the existing International Day Ahead and Intra-day (included IDA1, IDA2, IDA3) nominations which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution with hourly resolution (23, 24 or 25 values depending on the day)
A73 (Net XB Total)	A61 (quarter hourly values)	Confirmation report containing the BRP International Aggregated Netted Total Day Ahead and Intra-day using only the existing International Day Ahead and Intra-day (included IDA1, IDA2, IDA3) nominations which are confirmed and known in Elia nomination system at request time for the sender and the requested Date with quarter hourly resolution (92, 96 or 100 values depending on the day)

8.6.4.6. Anomaly Document for Process Type A17 – Global: Day Ahead and Intra-day

The following combination of Document type and process type is forbidden:

- Document type = A16 (Anomaly report)
- Process Type = A17 (Global / Day Ahead and Intra-day)

An Acknowledge document with an error is returned for any Business Type

8.7. StatusRequest_MarketDocument example

Following example requests an Anomaly report related to Internal Intra-day nominations for Execution date 15/10/2018

```
<StatusRequest_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-5:statusrequestdocument:4:0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <mRID>20181015_ A16_11X-BRP-EXAMP_A16</mRID>
  <type>A60</type>
  <sender_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</sender_MarketParticipant.mRID>
  <sender_MarketParticipant.marketRole.type>A08</sender_MarketParticipant.marketRole.type>
  <receiver_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</receiver_MarketParticipant.mRID>
  <receiver_MarketParticipant.marketRole.type>A04</receiver_MarketParticipant.marketRole.type>
e>
  <createdDateTime>2018-11-28T17:47:00Z</createdDateTime>
  <AttributeInstanceComponent>
    <attribute>RequestedReturnDocumentType</attribute>
    <attributeValue codingScheme="Z02">A16</attributeValue>
  </AttributeInstanceComponent>
  <AttributeInstanceComponent>
    <attribute>ProcessType</attribute>
    <attributeValue codingScheme="Z03">A01</attributeValue>
  </AttributeInstanceComponent>
  <AttributeInstanceComponent>
    <attribute>DateAndOrTime</attribute>
    <attributeValue codingScheme="Z01">2018-10-15</attributeValue>
  </AttributeInstanceComponent>
  <AttributeInstanceComponent>
    <attribute>BusinessType</attribute>
    <attributeValue codingScheme="Z03">A02</attributeValue>
  </AttributeInstanceComponent>
</StatusRequest_MarketDocument>
```

Chapter 9. Messages response from Elia to the BRP

This chapter describes the messages that Elia sends back to BRPs during the nomination submission and acceptance process. Details on the overall process are given in Chapter 5.

Note! *Elia B2B E-nomination system never sends on its own initiative CIM XML messages. It always and only answers to the Schedule or Status Request messages sent by the BRP*

9.1. Dependency matrix on returned messages

Based on the request, only one message is returned synchronously.

Message sent from BRP to Elia	Is the message sent well-formed, valid and correct?	Message returned by Elia B2B E-nomination system
Schedule	Yes	Acknowledgement with code A01
Schedule	No	Acknowledgement with code A02
Schedule	Partially: the message is well-formed and valid but at least one time series is incorrect	Acknowledgement with code A03 with the list of TimeSeries not accepted
Status request	Yes	Anomaly or Confirmation report
Status request	No	Acknowledgement with code A02

9.2. Acknowledgement message

Acknowledgement messages are issued when an initial assessment of the Schedule message has been made or if a Status Request message has errors (see 9.1 "Dependency matrix on returned messages" p92).

They are issued by the Elia B2B E-nomination system as part of the normal nomination process or as the response to a wrong Status Request. The process involved in acknowledging messages is shown in section 5.1.

It should be remembered that an Acknowledgement message that accepts a Schedule message only indicates that it is well-formed, valid and correct: basic rules (like door is open, etc.) are respected – not that the balance concerned is confirmed.

Acknowledgement message are also CIM XML files; they can be viewed in some browsers or in a text editor such as Notepad.

The structure of all Acknowledgement messages are identical. The Schema used to generate them is referenced in Chapter 11. They consist of a set of header elements and "reasons". The header elements identify the sender, receiver and original Message, and a full list is given in section 9.2.1. The "reasons" indicate the result of the assessment of the message and are discussed in section 9.2.2.

Note! *Never acknowledge an Acknowledgement message!*

9.2.1. Acknowledgement message header elements

Element	Meaning	Remark
mRID	Unique identifier for the message.	This element is Mandatory. This element forms a unique identification for the acknowledgment message.
createdDateTime	Date and time at which the message was submitted	This element is Mandatory. The date and the time of the creation and transmission of the acknowledgment message in UTC.
sender_MarketParticipant.mRID	It consists of a unique identifier for the sender of the message (BRP)	This element is Mandatory. The value must be the EIC code for Elia.
sender_MarketParticipant.marketRole.type	Identifies the role of the sender	This element is Mandatory. The value must be "A04"
receiver_MarketParticipant.mRID	Identifies the receiver of the message.	This element is Mandatory. The value must be "A01".
receiver_MarketParticipant.marketRole.type	Identifies the role of the receiver	This element is Mandatory. The value scheme must be "A01". The value must be the BRP EIC code.
received_MarketDocument.mRID	This is unique identification of the message being acknowledged.	It is identical to the mRID of the original message
received_MarketDocument.revisionNumber	The version number of the original Message.	

Element	Meaning	Remark								
received_MarketDocument.Type	The type of the received message	<table><tr><td colspan="2">Possible values:</td></tr><tr><th>Message</th><th>Code</th></tr><tr><td>Schedule</td><td>A01</td></tr><tr><td>Status Request</td><td>A60</td></tr></table>	Possible values:		Message	Code	Schedule	A01	Status Request	A60
Possible values:										
Message	Code									
Schedule	A01									
Status Request	A60									
received_MarketDocument.process.processType	The process type of the received message	This element is set to A01 or A02 of the original Message.								
received_MarketDocument.createdDateTime	This element is set to the date and time when the original message was treated by the Elia B2B E-nomination system and <u>not</u> when it was sent by the BRP	The date value is expressed in UTC See "4.1.3.1 Created Date and Time " p 18								

9.2.2. Reasons

The interesting content of an Acknowledgement message are the "reasons" which indicate either that the message has been completely accepted or that there is at least one problem.

For each <reason> there is a code as well as the corresponding text.

When a message has been completely accepted the reason part of the message will be as shown below:

```
<Reason>
  <code>A01</code>
  <text>Message fully accepted</text>
</Reason>
```

There may be several reasons listed if a message contains errors and so has been wholly or partly rejected.

The related reason text gives additional explanation. This text is not static and can change without notice.

The values of the code and their meanings are listed in Appendix B.

Note! This list can not be exhaustive

Remark: Some new reasons can be added in the future. They will be part of a new version of the documentation.

9.2.3. Acknowledgement message example

Here below an example of message returned on the example given on section "8.5

Schedule_MarketDocument with more than 1 type of nomination - example " p 72

In this example, we suppose that the doors are closed for the Internal Day Ahead but not yet for the Injection, offtake and International. Therefore the Internal nomination is rejected and the message is partially accepted

```
<Acknowledgement_MarketDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iec62325.351:tc57wg16:451-
1:acknowledgementdocument:8:0">
  <mRID>ACK_1_20202420200203135745</mRID>
  <createdDateTime>2020-02-03T13:07:49Z</createdDateTime>
  <sender_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</sender_MarketParticipant.mRID>
  <sender_MarketParticipant.marketRole.type>A04</sender_MarketParticipant.marketRole.type>
  <receiver_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</receiver_MarketParticipant.mRID>
  <receiver_MarketParticipant.marketRole.type>A08</receiver_MarketParticipant.marketRole.type>
  <received_MarketDocument.mRID>1_20202420200203135745</received_MarketDocument.mRID>
  <received_MarketDocument.revisionNumber>1</received_MarketDocument.revisionNumber>
  <received_MarketDocument.type>A01</received_MarketDocument.type>
  <received_MarketDocument.process.processType>A01</received_MarketDocument.process.processType>
  <Rejected_TimeSeries>
    <mRID>12_HUB__20200203135746</mRID>
    <version>6</version>
    <Reason>
      <code>302</code>
      <text>At this time of the day, internal energy transfer nominations for yesterday are only
accepted if they are corrections of existing nominations (which are unbalanced or waiting for
counterparty) or the counterparty has already been received.</text>
    </Reason>
  </Rejected_TimeSeries>
  <Reason>
    <code>A03</code>
    <text>Message partially accepted</text>
  </Reason>
</Acknowledgement_MarketDocument>
```

9.3. Anomaly report

AnomalyReport_MarketDocument is issued in response to a Status Request. To obtain an Anomaly report, the Status Request message must request the AttributeInstanceComponent attribute RequestedReturnDocumentType with a A16 value as explained in section 8.6.3.1 "The RequestedReturnDocumentType" p 77 .

Anomaly reports are also CIM XML files; they can be viewed in some browsers or in a text editor such as Notepad.

The structure of all Anomaly reports are identical. The Schema used to generate them is referenced in Chapter 11.

They consist of a set of header elements and "time series anomalies".

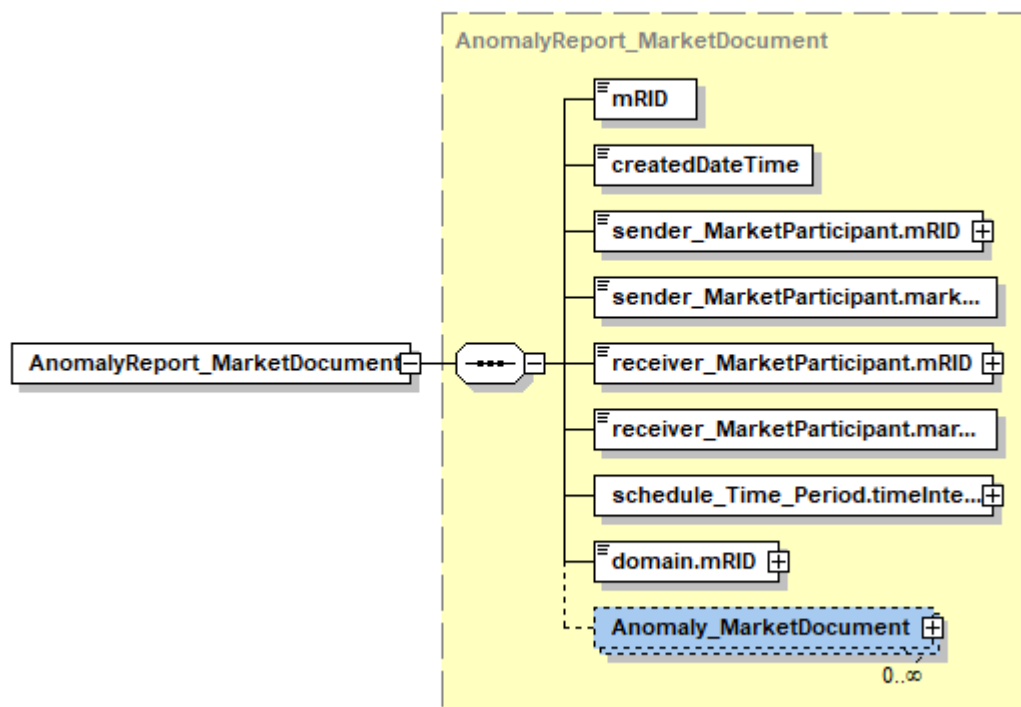
The header elements identify the report, the sender, receiver: a full list is given in section 9.3.1. The "time series anomalies" indicate the cause of the problems and are discussed in section 9.3.2.

Note! Only nominations that were accepted and saved by the Elia E-nomination web site are taken into account when returning an Anomaly report.

Specific cases:

- Any nomination refused (with a refused Acknowledgement message) are therefore never part of an Anomaly report
- If another BRP nominated against the current requesting BRP but the requested BRP did not nominate, nothing is returned to the current BRP.

9.3.1. Anomaly report header elements



Element	Explanation
mRID	This element forms a unique identification for the Anomaly report.
createdDateTime	The date and the time of the creation of the report in UTC.
sender_MarketParticipant.mRID sender_MarketParticipant.marketRole.type	These elements identify the sender of the message. The value of the element is set to the EIC code for Elia. The sender role is always set to "A04" indicating a TSO.
receiver_MarketParticipant.mRID receiver_MarketParticipant.marketRole.type	These elements identify the receiver of the message. The value of the element is set to the EIC code for the BRP. The receiver role is set to "A08", indicating a BRP.
schedule_Time_Period.timeInterval	This identifies the value of the schedule time interval in the original message which contains the anomalies.

Table 5 Anomaly report header elements

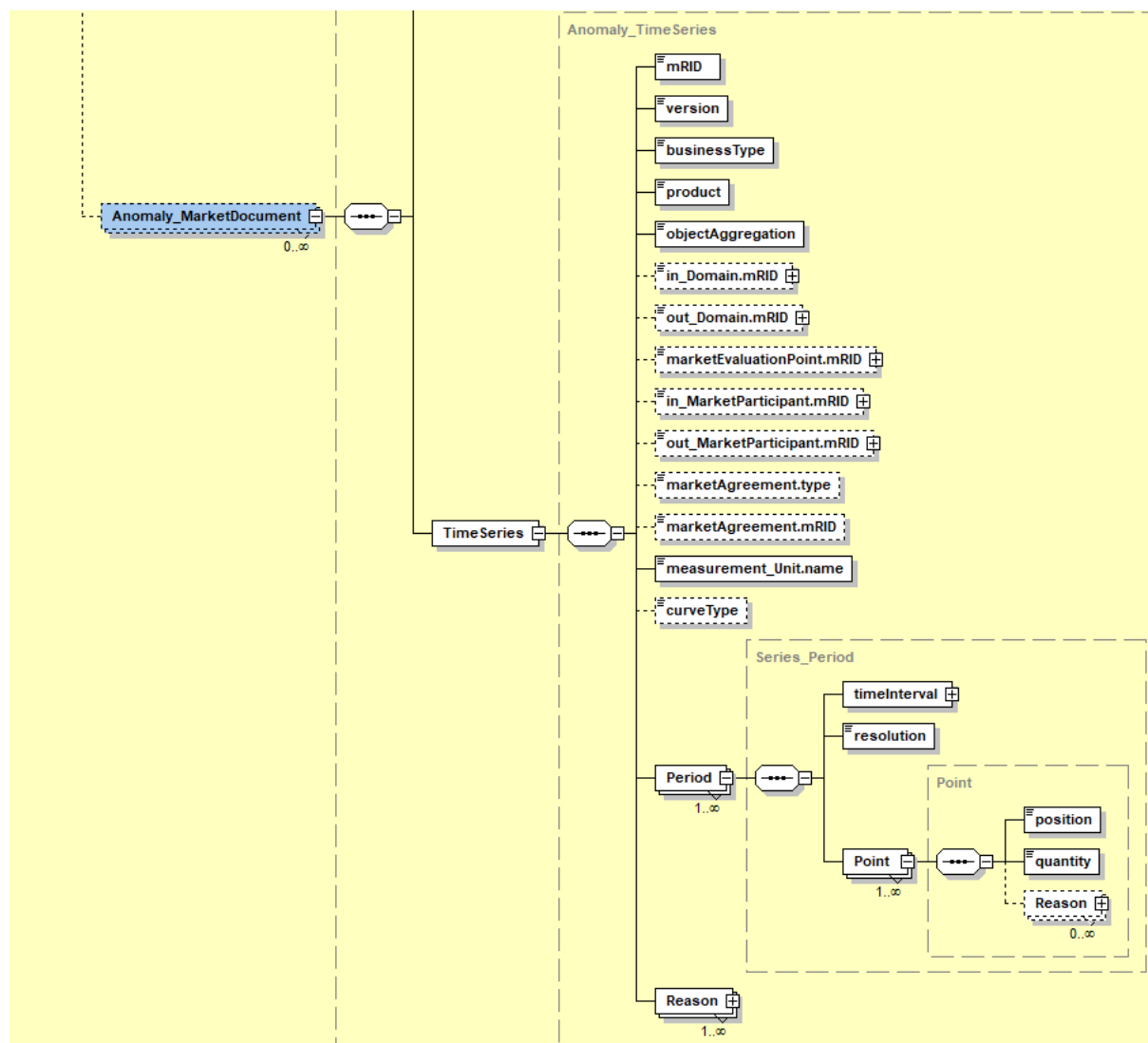
9.3.2. Anomaly_MarketDocument

The Elia E-nomination web site, does not use this reference because all the nominations in the Elia E-nomination web site are taken into account and not only a particular schedule message.

Element	Explanation
marketParticipant.mRID	Always BRP EIC
mRID	Always BRP EIC
revisionNumber	Always 999
TimeSeries	See here below

9.3.3. Anomaly report time series

Only the TimeSeries being in error with the list of periods of the time series.



The elements have the same meaning as described in section "8.3.3 Schedule TimeSeries elements" p 69 except indicated in the table here below:

Element	Explanation
mRID	An identifier unique in this message.
version	Version of the BRP nomination on the Elia E-nomination web site
objectAggregation	The code value for this element is Always A03

The list of error codes and meaning is given in Appendix B

Note: If the reason associated is a "Balance error" then a second Period element giving only the values of the CounterParty being in balance error is present (see Appendix B or the example)

9.3.4. AnomalyReport_MarketDocument example

Following example describes an Anomaly report for Execution date 10/12/2018 concerning BRP 11X-BRP-EXAMPLEX and an Internal nomination where this BRP is in "Balance Error" with BRP 22XBRP-EXAMPLE26. The Period values are from BRP2.

```
<AnomalyReport_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-2:anomalydocument:5:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <mRID>20181210_2_11X-BRP-EXAMPLEX</mRID>
  <createdDateTime>2018-12-09T17:31:00Z</createdDateTime>
  <sender_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</sender_MarketParticipant.mRID>
  <sender_MarketParticipant.marketRole.type>A04</sender_MarketParticipant.marketRole.type>
  <receiver_MarketParticipant.mRID codingScheme="A01">11X-BRP-
EXAMPLEX</receiver_MarketParticipant.mRID>
  <receiver_MarketParticipant.marketRole.type>A08</receiver_MarketParticipant.marketRole.typ
e>
  <schedule_Time_Period.timeInterval>
    <start>2018-12-09T23:00Z</start>
    <end>2018-12-10T23:00Z</end>
  </schedule_Time_Period.timeInterval>
  <domain.mRID codingScheme="A01">10YBE-----2</domain.mRID>
  <Anomaly_MarketDocument>
    <marketParticipant.mRID codingScheme="A01">11X-BRP-
EXAMPLEX</marketParticipant.mRID>
    <mRID>11X-BRP-EXAMPLEX</mRID>
    <revisionNumber>999</revisionNumber>
    <TimeSeries>
      <mRID>12345678901234567890123456789012345</mRID>
      <version>1</version>
      <businessType>A02</businessType>
      <product>8716867000016</product>
      <objectAggregation>A03</objectAggregation>
      <in_MarketParticipant.mRID codingScheme="A01">11X-BRP-
EXAMPLEX</in_MarketParticipant.mRID>
      <out_MarketParticipant.mRID codingScheme="A01">22XBRP-
EXAMPLE26</out_MarketParticipant.mRID>
      <measurement_Unit.name>MAW</measurement_Unit.name>
      <Period>
        <timeInterval>
          <start>2018-12-09T23:00Z</start>
          <end>2018-12-10T23:00Z</end>
        </timeInterval>
        <resolution>PT15M</resolution>
        <Point>
          <position>1</position>
          <quantity>45.2</quantity>
        </Point>
      </Period>
    </TimeSeries>
  </Anomaly_MarketDocument>
  ... All 'Point' are present in the 'Period' for the BRP
  </Period>
  <Period>
    <timeInterval>
      <start>2018-12-09T23:00Z</start>
      <end>2018-12-10T23:00Z</end>
    </timeInterval>
    <resolution>PT15M</resolution>
```

```

        <Point>
            <position>1</position>
            <quantity>12.2</quantity>
            <Reason>
                <code>Z06</code>
                <text>Value from the Counterparty</text>
            </Reason>
        </Point>
    ... Only the 'Point' in balance error from the counterparty are present
    </Period>
    <Reason>
        <code>Z06</code>
        <text>List of period where the BRP are in Balance error - Period 1
contains All values from the sender BRP - period 2 contains only values in balance error from
other BRP - with a specific reason </text>
    </Reason>
</TimeSeries>
</Anomaly_MarketDocument>
</AnomalyReport_MarketDocument>

```

9.3.5. AnomalyReport_MarketDocument with TBC and no counterparty example

The following example returns 2 anomalies:

- One is in TBC and matching the counterparty
- One is in TBC and there is no counterparty

```

<AnomalyReport_MarketDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iec62325.351:tc57wg16:451-
2:anomalydocument:5:1">
    <mRID>4d4390c648f0405585460e9485943b2b</mRID>
    <createdDateTime>2020-02-03T13:54:42Z</createdDateTime>
    <sender_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</sender_MarketParticipant.mRID>
    <sender_MarketParticipant.marketRole.type>A04</sender_MarketParticipant.marketRole.type>
    <receiver_MarketParticipant.mRID codingScheme="A01">11XELECTRABEL--
Z</receiver_MarketParticipant.mRID>
    <receiver_MarketParticipant.marketRole.type>A08</receiver_MarketParticipant.marketRole.type>
    <schedule_Time_Period.timeInterval>
        <start>2020-02-03T23:00Z</start>
        <end>2020-02-04T23:00Z</end>
    </schedule_Time_Period.timeInterval>
    <domain.mRID codingScheme="A01">10YBE-----2</domain.mRID>
    <Anomaly_MarketDocument>
        <marketParticipant.mRID codingScheme="A01">11XELECTRABEL--Z</marketParticipant.mRID>
        <mRID>11XELECTRABEL--Z</mRID>
        <revisionNumber>999</revisionNumber>
        <TimeSeries>
            <mRID>148d4308d37c454abfc2067956ae7429</mRID>
            <version>1</version>
            <businessType>A02</businessType>
            <product>8716867000016</product>
            <objectAggregation>A03</objectAggregation>
            <in_MarketParticipant.mRID codingScheme="A01">11XELECTRABEL--Z</in_MarketParticipant.mRID>
            <out_MarketParticipant.mRID codingScheme="A01">12XATEL-HANDEL-
K</out_MarketParticipant.mRID>
            <Period>

```

```
<timeInterval>
  <start>2020-02-03T23:00Z</start>
  <end>2020-02-04T23:00Z</end>
</timeInterval>
<resolution>PT60M</resolution>
<Point>
  <position>1</position>
  <quantity>45.0</quantity>
</Point>
... etc ...
<Point>
  <position>24</position>
  <quantity>45.0</quantity>
</Point>
</Period>
<Reason>
  <code>Z13</code>
  <text>The nomination is in 'Confirmed' or 'ImposedConfirmed' state and is in the matching
state "waiting for the nomination of the Counterparty" </text>
</Reason>
</TimeSeries>
</Anomaly_MarketDocument>
<Anomaly_MarketDocument>
  <marketParticipant.mRID codingScheme="A01">11XELECTRABEL--Z</marketParticipant.mRID>
  <mRID>11XELECTRABEL--Z</mRID>
  <revisionNumber>999</revisionNumber>
  <TimeSeries>
    <mRID>f9b46603c8d841d39bd5bfe4bc029532</mRID>
    <version>6</version>
    <businessType>A02</businessType>
    <product>8716867000016</product>
    <objectAggregation>A03</objectAggregation>
    <in_MarketParticipant.mRID codingScheme="A01">10X1001A1001A094</in_MarketParticipant.mRID>
    <out_MarketParticipant.mRID codingScheme="A01">11XELECTRABEL--
Z</out_MarketParticipant.mRID>
    <Period>
      <timeInterval>
        <start>2020-02-03T23:00Z</start>
        <end>2020-02-04T23:00Z</end>
      </timeInterval>
      <resolution>PT60M</resolution>
      <Point>
        <position>1</position>
        <quantity>0.0</quantity>
      </Point>
    ... etc ...
    <Point>
      <position>24</position>
      <quantity>111.1</quantity>
    </Point>
  </Period>
  <Reason>
    <code>Z12</code>
```

```
<text>The nomination is in 'TBC' or 'ImposeTBC' state and is waiting for the nomination  
of the Counterparty BRP</text>  
</Reason>  
</TimeSeries>  
</Anomaly_MarketDocument>  
</Anomaly_MarketDocument>  
</AnomalyReport_MarketDocument>
```

9.4. Confirmation report

Confirmation reports “confirms” the energy transfer values that are due to take place or have taken place and are saved in Elia e-nomination system: It returns either:

- The list of nominations that are known by the Elia B2B E-nomination system at the request time and their state.
- The BRP imbalance or the aggregated values

They are issued in response to a Status Request: see section 9.1 "Dependency matrix on returned messages" p92

Confirmation reports are also CIM XML files: they can be viewed in some browsers or in a text editor such as Notepad.

The structure of all Confirmation reports are identical. The Schema used to generate them is referenced in Chapter 11.

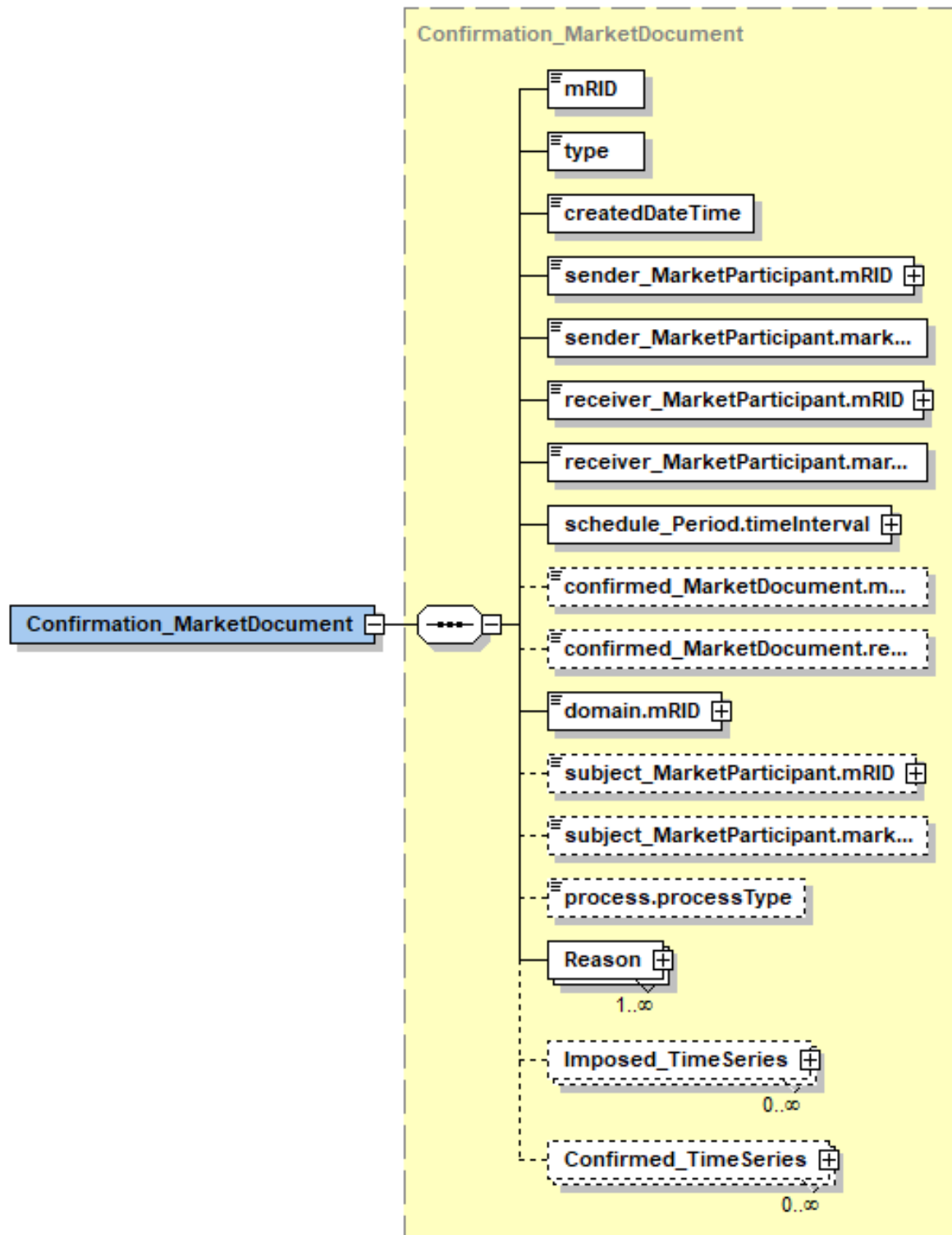
They consist of a set of header elements that identify the report, the sender and receiver.

A full list of the header elements is given in section 9.4.1.

Finally they contain a series of elements relating to the values in the time series and their status. These are listed in section 9.4.2.

Note! Only nominations that were accepted and saved by the Elia E-nomination web site or Elia B2B E-nomination system are returned. Any nomination not accepted are therefore never part of a Confirmation report.

9.4.1. Confirmation report header elements



Element	Explanation
mRID	This element forms a unique identification for the Confirmation report.
Type	The Confirmation report is always considered as intermediate even for dates in the past, this value is always set to "A07".
createdDateTime	The date and the time of the transmission of the report in UTC.
sender_MarketParticipant.mRID sender_MarketParticipant.marketRole.type	These elements identify the sender of the message. The value of the element is set to the EIC code for Elia. The sender role is always set to "A04" indicating a TSO.
receiver_MarketParticipant.mRID receiver_MarketParticipant.marketRole.type	These elements identify the receiver of the message. The value of the element is set to the EIC code for the BRP. The receiver role is set to "A08", indicating a BRP.
schedule_Period.timeInterval	This identifies the value of the schedule time interval in the request.
domain.mRID	The domain is Belgium
process.processType	The same as the ProcessType of the original Status Request message.
Reason	Generic reason. Possible values are given in "10.4 Confirmation report header reasons " p 108
Confirmed_TimeSeries	See here below

The other header elements are never present

9.4.2. Confirmed_TimeSeries elements

The Confirmed_TimeSeries elements contain the latest version of the original time series values and a reason code.

Element	Explanation
Reason	The possible state. The reasons are listed in Appendix B
marketEvaluationPoint.mRID	Only present for injection and offtake nominations

The other element values are the same as for the Schedule message as described in section 8.3.3 "Schedule TimeSeries elements" p 69

9.4.3. Imposed_TimeSeries elements

There is no Imposed_TimeSeries

9.4.4. Confirmation_MarketDocument example

Following example describes a Confirmation message for Execution date 10/12/2018 concerning BRP 11X-BRP-EXAMPLEX and an Internal nomination where this BRP is in "Balance Error-Accepted"

```
<Confirmation_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-2:confirmationdocument:5:0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <mRID>12345678901234567890123456789012345</mRID>
```



```

<type>A01</type>
<createdDateTime>2018-10-27T17:31:00Z</createdDateTime>
<sender_MarketParticipant.mRID
codingScheme="A01">10X1001A1001A094</sender_MarketParticipant.mRID>
<sender_MarketParticipant.marketRole.type>A04</sender_MarketParticipant.marketRole.type>
<receiver_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</receiver_MarketParticipant.mRID>
<receiver_MarketParticipant.marketRole.type>A08</receiver_MarketParticipant.marketRole.typ
e>
<schedule_Period.timeInterval>
  <start>2018-12-09T23:00Z</start>
  <end>2018-12-10T23:00Z</end>
</schedule_Period.timeInterval>
<domain.mRID codingScheme="A01">10YBE-----2</domain.mRID>
<process.processType>A01</process.processType>
<Reason>
  <code>A03</code>
  <text>At least one nomination has an issue</text>
</Reason>
<Confirmed_TimeSeries>
  <mRID>0123456789</mRID>
  <version>1</version>
  <businessType>A02</businessType>
  <product>8716867000016</product>
  <objectAggregation>A03</objectAggregation>
  <in_MarketParticipant.mRID codingScheme="A01"> 11X-BRP-
EXAMPLEX</in_MarketParticipant.mRID>
  <out_MarketParticipant.mRID codingScheme="A01">22XBRP-
EXAMPLE26</out_MarketParticipant.mRID>
  <measure_Unit.name>MAW</measure_Unit.name>
  <Period>
    <timeInterval>
      <start>2018-12-09T23:00Z</start>
      <end>2018-12-10T23:00Z</end>
    </timeInterval>
    <resolution>P15M</resolution>
    <Point>
      <position>1</position>
      <quantity>45.2</quantity>
    </Point>
    ... other <Point> elements ...
  </Period>
  <Reason>
    <code>Z06</code>
    <text>List of period where the BRP are in Balance error - values are the
ones from other BRP</text>
  </Reason>
</Confirmed_TimeSeries>
</Confirmation_MarketDocument>

```

Chapter 10. List of reasons

10.1. Acknowledge message header reasons

Table of reasons given below

Code	Reason	Description
A01	OK	The message is fully accepted
A02	Header error	Error in the message header. It is fully refused
A03	TimeSeries error	At least one time series has an error <i>Note! even if all Time series are in error then A03 is used</i>

10.2. Acknowledge time series error reasons

Table of reasons given below

Code	Description
Z10	Request made at a too high frequency
Z11	Returned message size is too large. Narrow your request. This cover mainly returned Confirmation document.
Z12	Nomination forbidden on this type of Point
Z13	Nomination forbidden on this type of Point on which the BPR has Roles SER and NOER
Z30	Message not well-formed or does not respect the related Schema (XSD).
Z31	Invalid message. For example, if the document sent is empty or is not a Schedule or StatusRequest document
Z33	Another Header error like a specific value not accepted. See related reason text
Z40	Door closed for this type of nomination and execution date
Z41	Incorrect number of <Point> elements for the given Execution Date. For example for the DST days
Z42	Value too large. For example the Injection quarter hourly values are limited at 1000 MW.
Z43	Incorrect Time Interval. For example not an exact complete day
Z44	Energy quantities not specified in the unit MAW
Z45	Header domain is incorrect
Z46	Header process.processType is incorrect
Z47	Sender participant is not the BRP EIC associated with the user id
Z48	Header role(s) are incorrect
Z50	Nomination version number is incorrect
Z51	Internal Timeout error. The Nominations can have been saved or not
Z52	Error in the in_MarketParticipant.mRID and out_MarketParticipant.mRID in an internal (the BRP is not present one and exactly one time) or international TimeSeries the BRP is not present on the Belgian Area)
Z53	Error in the in_Domain or an out_Domain in an international nomination
Z54	Error in the TimeSeries businessType
Z55	Error in the TimeSeries marketAgreement.type (unknown or unauthorized)

Z56	The Net Offtake Energy Responsible (NOER) may not create offtake nomination on the access point [EAN]. Only the Net Injection Energy Responsible (NIER) may create such a nomination.
Z60	Some values may not be used (like use Elia as other market participant in an Internal nomination without specific contract)
Z61	The nomination of the counterparty is in a state that cannot be modified
Z62	The BRP has no contract allowing this nomination.
Z63	A nomination cannot be submitted without details.
Z64	At least one power value is invalid
Z65	At this time of the day, internal energy transfer nominations for yesterday are only accepted if they are corrections of existing nominations (which are unbalanced or waiting for counterparty) or the counterparty has already been received.
Z66	The nomination state does not allow new versions.
Z67	Invalid number of items in schedule for date {0} : received {1} instead of {2}
Z68	The counterparty {0} has no right to nominate.
Z69	{0} is not authorised to buy from ELIA.
Z70	marketEvaluationPoint.mRID is not present for an offtake or an injection TimeSeries
Z71	{0} is not authorised to sell to ELIA.
Z72	A nomination for this date, this "ARP From" and this "ARP To" with version [{0}] has already been received. Use at least the version number [{1}]
Z73	The Net Offtake Energy Responsible (NOER) may not create offtake nomination on the access point {0}. Only the Net Injection Energy Responsible (NIER) may create such a nomination.
Z74	The Net Offtake Energy Responsible (GOER) may not create offtake nomination on the access point {0}. Only the Net Injection Energy Responsible (GIER) may create such a nomination.
Z75	The Shared Energy Responsible (SER) may not create offtake nomination on the Offtake point {0}. Only the Balance Follow-Up Responsible (BFR) may create such a nomination.
Z76	The buyer cannot be the same as the sender ({0})
Z77	The nomination with execution date [{0}] is not authorized. You can only nominate for a date later than [{1}]
Z80	Status Request document has an incorrect Criteria element name or value
Z90	Schedule document contains too many TimeSeries
Z99	Any other business TimeSeries error (described in the associated reason text)
999	Technical error occurred within the B2B nomination system. Some reason can be indicated in the Reason text

10.3. Anomaly time series second Period error reason

When the reason is a balance error (see here below codes Z07 until Z10), the Anomaly contains, for each time series being in balance error, two elements 'Period':

- The first element 'Period' contains all the value of the BRP and the related 'Points' do not contain any element 'Reason'
- The second element 'Period' only the value of the Counterparty and the related 'Points' have element 'Reason' with the value 'Z06'
- When the time series reason is not a balance error then the time series contains only one element 'Period' and all the value of the BRP and the related 'Points' do not contain any element 'Reason'

10.4. Confirmation report header reasons

Table of reasons given below

Code	Reason	Description
A01	OK	The message is fully accepted
A03	TimeSeries error	At least one time series has an error <i>Note! even if all 'TimeSeries' are in error then A03 is used</i>

Anomaly and Confirmation reports time series reasons

Table of reasons given below. The states are described in the e-nominations guide documentation. See "1.2 Related documents " p 6

Code	Reason	Description	Returned in
Z01	OK-Accepted	The nomination is in 'Accepted' state and is correct or 'Zero WFC'	Confirmation report
Z02	OK-TBC	The nomination is in 'TBC' or 'ImposeTBC' state and is correct or 'Zero WFC'	Confirmation report
Z03	OK-Confirmed	The nomination is in 'Confirmed' or 'ImposedConfirmed' state and is correct or 'Zero WFC'	Confirmation report
Z04	OK-Rejected	The nomination is in 'Rejected' state and is correct or 'Zero WFC'	Confirmation report
Z05	OK-Curtailed	The nomination is in 'Curtailed' state and is correct or 'Zero WFC'	Confirmation report
Z06	Balance error-Accepted	The Internal or External nomination is in 'Accepted' state and at least one value does not match with the nomination given by the counterparty BRP	Confirmation report Anomaly report
Z07	Balance error-TBC	The Internal or External nomination is in 'TBC' or 'ImposeTBC' state and at least one value does not match with the nomination given by the counterparty BRP	Confirmation report Anomaly report
Z08	Balance error-Confirmed	The Internal or External nomination is in 'Confirmed' state and at least one value does not match with the nomination given by the counterparty BRP	Confirmation report Anomaly report
Z09	Balance error-Rejected	The Internal or External nomination is in 'Rejected' state and at least one value does not match with the nomination given by the counterparty BRP	Confirmation report Anomaly report

Code	Reason	Description	Returned in
Z10	Balance error-Curtailed	The Internal or External nomination is in 'Curtailed' state and at least one value does not match with the nomination given by the counterparty BRP	Confirmation report Anomaly report
Z11	WFC-Accepted	The nomination is in 'Accepted' state and is waiting for the nomination of the Counterparty BRP	Confirmation report Anomaly report
Z12	WFC-TBC	The nomination is in 'TBC' or 'ImposeTBC' state and is waiting for the nomination of the Counterparty BRP	Confirmation report Anomaly report
Z13	WFC-Confirmed	The nomination is in 'Confirmed' or 'ImposedConfirmed' state and is in the matching state "waiting for the nomination of the Counterparty"	Confirmation report Anomaly report
Z14	WFC-Rejected	The nomination is in 'Rejected' state and is in the matching state "waiting for the nomination of the Counterparty"	Confirmation report Anomaly report
Z15	WFC-Curtailed	The nomination is in 'Curtailed' state and is in the matching state "waiting for the nomination of the Counterparty"	Confirmation report Anomaly report

Chapter 11. Schemas and namespaces

The messages structure reference is listed in section 1.1 “CIM – Electronic Scheduling System (ESS)”

The Schedule message is constructed on the basis of a single Schema that is used for all types of nominations. The distinction between the various types of nominations is made using different combinations of values and attributes for the elements set out in the Schema: See chapter 6 “Messages sent from the BRP to Elia” p 65

Since this Schema is designed to be used by all European TSO, it is by nature rather general. This has the advantage that it can be used to create Schedule messages that can ultimately be processed by any European operator. However each TSO has different business rules, and while a Schedule message may be valid according to the general Schema, that does not necessarily mean that it can be processed by a particular TSO.

If the general Schema is used then it is important that the client understands the specific conditions required for specific types of nominations. These are set out in Chapter 6 for each nomination type. Additional information is given in the explanatory sections in 0 devoted to creating Schedule messages using the “Message Generation tool” provided in the form of an Excel file.

As an example: in the general Schema, the marketEvaluationPoint.mRID element is optional but for an Injection or an Offtake Schedule message Elia requires that these elements are mandatory.

To facilitate the validation of Schedule messages for particular types of nominations, Elia provides an additional set of Schemas tailored to specific types. The different Schemas can be used to validate each type of messages and can be found at: <http://nedi1.elia.be/namespaces/public/Scheduling>

Message	URL	Version	Reference in this document
acknowledgement	https://nedi1.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-1-acknowledgement_v8_0.xsd	8.0	9.2 Acknowledgement message p 93
Anomaly	https://nedi1.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-2-anomaly_v5_1.xsd	5.1	9.3 Anomaly report p 96
Confirmation	https://nedi1.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-2-confirmation_v5_0.xsd	5.0	9.4 Confirmation report p 102
schedule	https://nedi1.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-2-schedule_v5_1.xsd	5.1	8.3 Schedule_MarketDocument p 65
statusrequest	https://nedi1.elia.be/namespaces/public/scheduling/ELIA-iec62325-451-5-statusrequest_v4_0.xsd	4.0	8.6 StatusRequest_MarketDocument p 76

Note! Even if XML recommends to refer to a Schema from within a XML message, Elia does not recommend to use the Elia URI within the CIM XML message sent to Elia. Because many tools make a call to this address and Elia does not guarantee that the URL to this Schema is always available.

The Schemas indicated here above import codes values from the following files:

File	URL
List of standards codes	https://nedi1.elia.be/namespaces/public/Scheduling/urn-entsoe-eu-wgedi-codelists.xsd
List of codes existing only for the Elia B2B E-nomination system	https://nedi1.elia.be/namespaces/public/Scheduling/urn-entsoe-eu-local-extension-types.xsd