Réseau de transport d'électricité

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PAS

NEB
IS rules

50 Pages

Cancelled documents:
Reference documents:
Functional reference:
Summary:

This document describes the IS rules for the new application NEB (the French acronym for Block Exchange Notification). The application is used by RTE to record block exchanges between balance responsible entities
At this point the document is in the "project" phase.

Access:

Unrestricted	**X**
RTE	
Restricted	
Confidential	

Business entity and processes directly involved:

Business entity, function	CM
RTE macroprocess	
Local process	

EDM domain:

Public	X
Private	

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1. Context: functional domain of NEB

The block exchange service (NEB service) processes energy supply exchanges between either a balance responsible entity (BRP) and a consumption site, or between two balance

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responsible entities. Those exchanges are taken into account when calculating the imbalances of the balance responsible entities.
When there is an exchange between two balance responsible entities, each BRP declares its block exchange programme (known by the French abbreviation PEB in RTE). RTE then checks the consistency of the PEB with that declared by the other party.
When there is an exchange between a BRP and a consumption site, the BRP declares the PEB to RTE (single notification).

2. Access to the IS of RTE

The general conditions for access to the IS of RTE are set out in the rules of access to RTE information systems and use of RTE applications (http://clients.rte-france.com/lang/fr/visiteurs/accueil/portail.jsp).

2.1 NEB applications

Requests for access to generic applications (e.g. NEB) are made using a form (https://clients.rte-france.com/secure/fr/visiteurs/accueil/portail_adhesion.jsp).

2.2 Prerequisites

To access the NEB application, the BRP must:

- Have a valid PKI certificate related to the NEB application.
- Have a valid participation agreement as a BRP

3. PEB declaration process

In accordance with section 2 of the rules relating to programming, the adjustment mechanism, and the balance responsible entity system, BRPs can declare their PEBs to RTE:

- between D-30 and strictely not later than 4.30pm on D-1 for a delivery on day D. This is referred to as the day ahead process.
- between 4.30pm on D-1 and strictely up to 11.30pm on day D for the beginning of an immediate delivery. This is referred to as the intraday process.

The verification of the consistency of the programmes, which is referred to as "matching", is done continuously from D-30 strictely up to 4.30pm on D-1 for block exchange programmes in the day ahead process. For block exchange programmes in the intraday process, the matching is done continuously from 4.30pm on D-1 strictely up to 11.30pm on the day of the exchange.

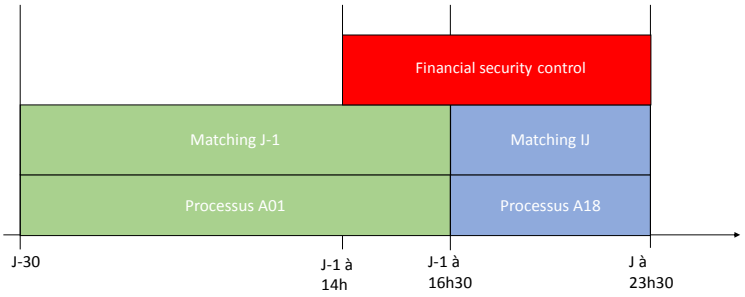
Verification of compliance with the daily energy allowance, referred to as the "financial protection check", is done from 2.00pm on D-1 strictely up to 4.30pm on D-1 for block exchange programmes from the day ahead process, from the time that RTE receives the result of the open electricity exchanges on the French day-ahead market and the result of the imports/exports exchanges (i.e. around 3.00pm, currently). For block exchange programmes in the intraday process, the financial protection check is done continuously from 4.30pm on D-1 up to 11.30pm on the day of the exchange.

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This section defines the procedures for implementing block exchanges for the day ahead and intraday processes.

3.1 Configuration of NEB processes

Process A01 (day ahead) is used for day ahead block exchanges.
Process A18 (intraday total) is used for intraday block exchanges.



3.2 Means of transmission of data between the BRPs and RTE

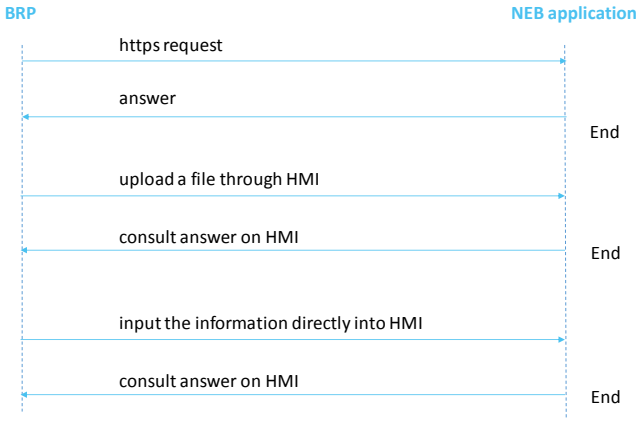
The BRP can send its PEBs to RTE in one of three ways:

- By sending a https request (schedule document)
- By uploading a file (schedule document) into a dedicated HMI (Human-Machine Interface)
- By entering the information into a dedicated HMI.

The BRP can also consult the status of its nominations:

- By sending a https request (status request); this provides the BRP with access to a confirmation report, an anomaly report, or a publication report.
- Via a dedicated HMI.

The following illustration is a table of the different ways of transmitting the data:



3.3 Process for sending a schedule document

The BRP nominates its PEBs in a **schedule document**.

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The schedule document must contain all of the BRP's PEBs (BRP-BRP and BRP-site) for the delivery date in question and must comply with the file format described below. The characteristics of a balance responsible entity's PEB are:

- The EIC (ENTSO-E Identification Code) X code of the vendor BRP,
- The EIC X code of the purchaser BRP or the EIC Z code of the consumption site on the public electricity transmission network, or the PRM (reference measurement point) code of the consumption site on the public distribution network,
- a PEB type (BRP-BRP or BRP-site),
- the delivery day,
- the block exchange record (containing 48 values for a normal day, 46 values for the day when clocks are switched from winter time to summer time or 50 values for the day when clocks are switched from summer time to winter time).

A block exchange record contains only positive values rounded off to the nearest 1/1000th of a megawatt or nil values. It must cover every half hour of the delivery day, including if it is sent intraday and must not modify the values in the half-hourly intervals preceding the time of reception of the schedule document, only the half-hourly intervals after the date/time of reception are taken into account.

On reception of a schedule document, RTE sends an acknowledgement of reception file stating whether the schedule document is compliant with the required format or non-compliant (rejected). In the case of a rejection, RTE specifies the associated reason.

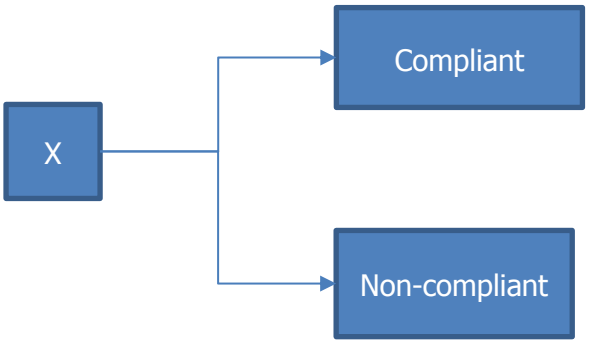


Figure 1 Schedule document status

3.4 Matching process

If the schedule document is compliant, RTE records all of the PEBs from the schedule document. BRP-site PEBs are automatically switched to "matched" status.

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However, for each BRP-BRP PEB where the version number has increased:

- If RTE has already received an identical PEB (same pairing of vendor BRP/purchaser BRP, same delivery day, same type of process) from the counterpart BRP, RTE matches the PEBs. If all the conditions set out in the BRP rules are met, RTE switches the status of the PEB to "matched" and retains:
  - for the day ahead process, a record in which each value is equal to the minimum of the two power values from the two compared PEBs.
  - for the intraday process, a record in which each value is equal to the compared value if it is consistent or to the last accepted value if it is not consistent.
- If RTE has not received a PEB from the counterpart BRP, the PEB status is switched to "awaiting matching".

The PEBs are switched to "matched" status in order of the time of reception of the PEB from the counterpart BRP.

If the two compared PEBs show at least one value that differs, then the matched PEB is inconsistent, otherwise it is consistent.

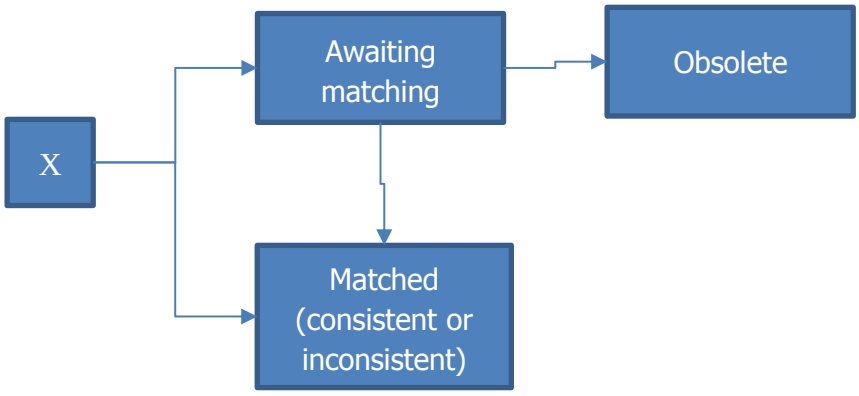


Figure 2 Status of a PEB

3.5 Financial protection check

When the matched PEB passes the financial protection check (i.e. the daily energy value is below the authorized daily energy allowance), the status of the PEB is switched to "validated". Any matched PEB showing that the authorized daily energy allowance was exceeded remains on "pending" status until a corrective action is undertaken by the BRP. If no corrective action is undertaken, it is rejected [1] (at

[1] The start-up of the "rejection" of PEBs in the event of exceedance of the authorized allowance will require approval from the French energy regulatory authority (CRE), in compliance with section 2 of the rules.

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4.30pm for the day ahead process or at the rectification deadline for the intraday process).

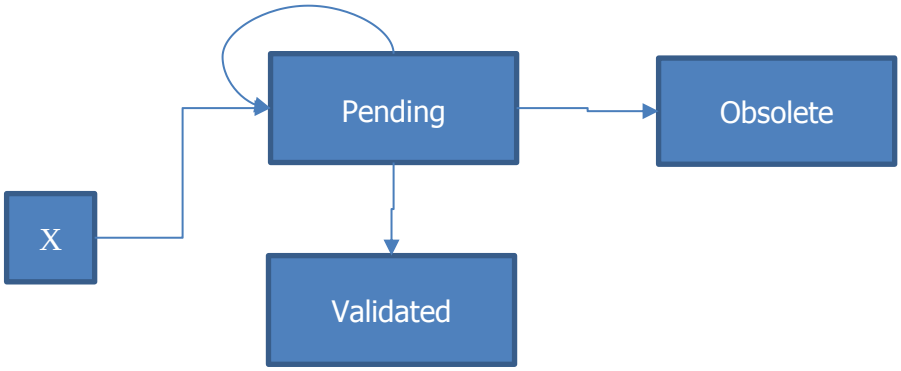


Figure 3 Status of a matched PEB

When RTE has all the data needed to perform the financial protection check:

- the financial protection check is carried out in the order of when the PEBs were matched.
- With each schedule document received, after matching all the PEBs in the document, the financial protection check is carried out with priority given to the purchaser PEBs and then the vendor PEBs, in the chronological order of their matching.

3.6 Date/time limit for reception

If RTE has not received a PEB from the counterpart BRP within the time limit, the PEB status is switched to "Obsolete" by RTE. No matched PEB is recorded by RTE.

When a PEB is recorded with the status "Awaiting matching", RTE determines a time limit for reception of the PEB from the counterpart BRP as follows:

- If the PEB for delivery day D is received on the day ahead basis, the time limit for reception from the counterpart BRP is 4.30pm on D-1 excluded.
- If the PEB for delivery day D is received on the intraday basis (between 4.30pm on day D-1 and 11.30pm on day D), the time limit for reception from the counterpart is the first half-hour interval of the PEB with a value different than that retained by RTE for that block exchange (same pairing of vendor/purchaser balance responsible entities, same type of process, same delivery date). The values retained by RTE for a block exchange programme are either the values from the PEB recorded by RTE during a prior matching, or nil values in the absence of a PEB.

Example: If the first half-hour interval with a different value is 8.30am, then the time limit is 8.30am.

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Note: if the PEB contains only values identical to that retained by RTE for that block exchange, the time limit for reception from the counterpart BRP is set as 11.30pm on day D.

4. Document formats

The files are based on the those of the ENTSO-E Scheduling System process:

- Schedule document based on the schedule document template;
- Acknowledgement of reception file based on the acknowledgement document template from ENTSO-E;
- Confirmation report file based on the confirmation report document template from the ENTSO-E scheduling system;
- Anomaly report file based on the anomaly report document template from the ENTSO-E scheduling system;
- Publication report file based on the schedule document template from the ENTSO-E scheduling system.

All the files are in XML format.

The XSD of these files is provided by RTE on the website: http://clients.rte-france.com/, under the heading: [to be filled in].

4.1 Schedule document

The name format of the schedule document is as follows:

```
NEB_<EIC of sender BRP>_<delivery date>_<date/time of generation of the file >.xml
```

Where:

- <EIC of sender BRP> is the EIC X code of the BRP sending the file.
- <delivery date> is the delivery date of the PEB in the date format YYYYMMDD.
- <date/time of file generation> is the date and time of the generation of the file in the format YYYYMMDDHHMMSS.

Example of a file name:

For a BRP with the EIC "10X0123456789012" sending PEBs for the delivery date 15/10/2019 via a schedule document generated on 14/10/2019 at 13:14:42, the name of the schedule document is as follows:

NEB_10X0123456789012_20191015_20191014131442.xml

The schedule document uses the following XSD files:

- iec62325-451-2-schedule_v5_0.xsd
- urn-entsoe-eu-wgedi-codelists.xsd
- urn-entsoe-eu-local-extension-types.xsd

These XSD files are provided by RTE on request.

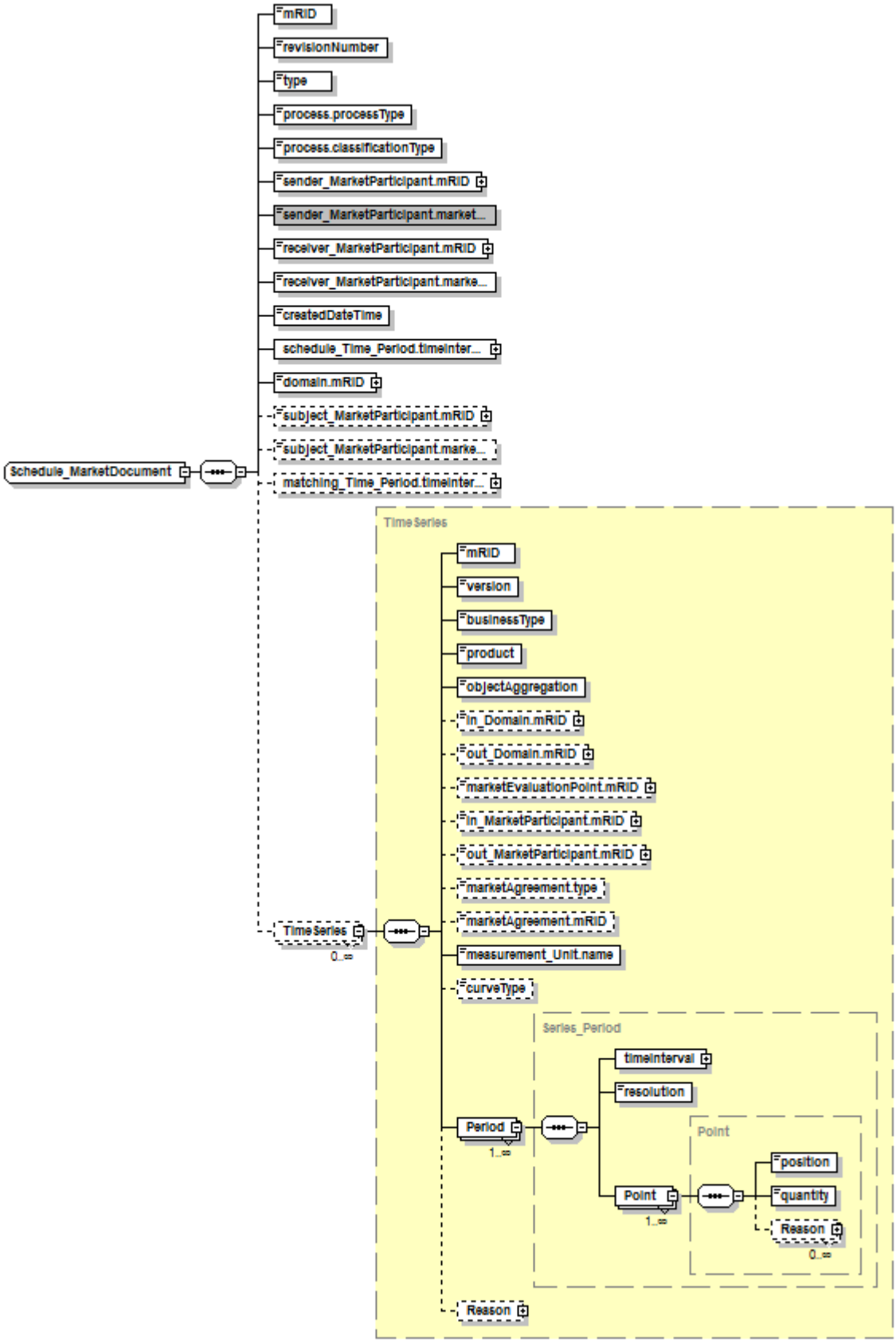
These XSD files (and not those available on the ENTSOE website) must be used to generate the schedule document.

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The schema structure described by the file iec62325-451-2-schedule_v5_0.xsd must be followed, as well as the data types and the list of possible values in certain fields which are given in the other XSD files.
The encoding is UTF-8.

The information template for the schedule document is based on the schedule document. It is as follows:

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A schedule document is considered a document that belongs to the sender BRP (sender_MarketParticipant.mRID field), and which is for a delivery date (schedule_Time_Period.timeInterval field).

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In other words, the value of the schedule document's mRID is unique to a sender BRP and a delivery date.
Any other sender BRP must not have an identical mRID value for its schedule document. For this reason, it is recommended to compose the mRID as follows:
<EIC of the BRP>-<delivery date in the date format YYYYMMDD>-NEB<number>
Example: 10X0123456789012-20191001-NEB1

This document must contain all the PEBs for the delivery date in question.
A BRP-BRP PEB is identified by the vendor BRP/purchaser BRP pairing (via the fields out_MarketParticipant.mRID and in_MarketParticipant.mRID).
A BRP-site PEB is identified by the vendor BRP/purchaser site pairing (via the fields out_MarketParticipant.mRID and marketEvaluationPoint.mRID).

For a given delivery date and a pairing (vendor BRP, purchaser BRP), a BRP must always use the same TimeSeries class mRID for each PEB.

If the BRP sends several schedule documents relating to the same delivery date, the mRID fields of the schedule document must be identical for each of the files. The same goes for each PEB, the TimeSeries class mRID fields of each of those files must be identical.
The revisionNumber fields of the schedule document must be incremented strictly in the order of the sending of the schedule documents.
The version fields of each PEB must be incremented in the order of the sending of the schedule documents.
In this way, the version fields of the PEBs are always lower than or equal to the revisionNumber field.
The meaning of the fields in this template is as follows:

- Schedule_MarketDocument class:

FIELDS	**DESCRIPTIONS**
mRID	Unique ID of the document. In order to avoid different BRPs using the same mRID, it is recommended to compose the mRID as follows: <EIC of the BRP>-<delivery date in the date format YYYYMMDD>-NEB<number> Example: 10X0123456789012-20191001-NEB1 Size: 35 alphanumeric characters max.

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revisionNumber	Document version number (value between 1 and 999). For a newly received schedule document, the version number must be higher than the version number previously received by the NEB application. It is not necessary that the first sending be numbered version 1. The rejection of a document involves incrementing the version number if the BRP sends a new version of its schedule document. Size: 3 numeric characters max.
type	This field must always contain the value "A01" (Balance responsible schedule) Size: 3 alphanumeric characters max.
process.processType	This field must contain the value "A01" (day ahead) for nominations on D-1 before 4.30pm or "A18" (intraday total) for nominations between 4.30pm on D-1 and 11.30pm on the day of the exchange. Size: 3 alphanumeric characters max.
process.classification Type	This field must always contain the value "A01" (Detail Type) Size: 3 alphanumeric characters max.
sender_MarketParticipant.mRID	EIC X code of the BRP sending the schedule document. The value in this tag must contain the EIC X code of the BRP that sent the request containing the schedule document. The coding scheme is "A01" Example: <sender_MarketParticipant.mRID codingScheme="A01">10X0123456789012</sender_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
sender_MarketParticipant.marketRole.type	This field must always contain the value "A08" (Balance responsible party) Size: 3 alphanumeric characters max.
receiver_MarketParticipant.mRID	EIC code of RTE. This field must always contain the value "10XFR-RTE------Q", accompanied by the coding scheme "A01" Example: <receiver_MarketParticipant.mRID codingScheme="A01">10XFR-RTE------Q</receiver_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
receiver_MarketParticipant.marketRole.type	This field must always contain the value "A04" (System Operator) Size: 3 alphanumeric characters max.
createdDateTime	Date and time of generation of the schedule document expressed in UTC time, in the format YYYY-MM-DDTHH:MM:SSZ

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schedule_Time_Period.timeInterval	Start date/time and end date/time of the period covered by the document. In our case, that period must cover A SINGLE DAY. That is the delivery date of the block exchange. The date/time must be expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ Given the fact that to cover the period of ONE day, two date/times are provided, the date/time takes into account the time difference between UTC time and the local time in Paris. The start date/time is necessarily equal to the end date/time – 1 day. If the date falls within the summer time period, the time (HH:MM) must equal 22:00. If the date falls within the winter time period, the time (HH:MM) must equal 23:00. Example taking the date of 1 October 2014: <schedule_Time_Period.timeInterval> <start>2014-09-30T22:00Z</start> <end>2014-10-01T22:00Z</end> </schedule_Time_Period.timeInterval> Example taking the date of 26 October 2014 (the date of the change to winter time): <schedule_Time_Period.timeInterval> <start>2014-10-25T22:00Z</start> <end>2014-10-26T23:00Z</end> </schedule_Time_Period.timeInterval>
domain.mRID	This field must always contain the value "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01" Size: 18 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
SubjectParty	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.
SubjectRole	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.
MatchingPeriod	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.

- TimeSeries class:

FIELDS	**DESCRIPTIONS**

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mRID	Unique ID of the TimeSeries in the document. For an mRID of the given schedule document, the TimeSeries mRID is unique for each PEB. When a new version of a PEB is sent, the mRID must not change. Size: 35 alphanumeric characters max.
version	TimeSeries version number (value between 1 and 999). That number must be below or equal to the version number of the schedule document (revisionNumber). Size: 3 numeric characters max.
businessType	This field always contains the value: "A02" (Internal trade) Size: 3 alphanumeric characters max.
product	This field must always contain the value "8716867000016" (Active Power) Size: 13 numeric characters max.
objectAggregation	This field is used to indicate whether the PEB type is BRP-BRP or BRP-site. This field can contain the following values: - "A03" (Party) for a BRP-BRP PEB - "A02" (Metering Point) for a BRP-site PEB Size: 3 alphanumeric characters max.
in_Domain.mRID	This field should contain the value "10YFR-RTE------C" and the coding scheme "A01". Size: 3 alphanumeric characters max.
out_Domain.mRID	This field should contain the value "10YFR-RTE------C" and the coding scheme "A01". Size: 3 alphanumeric characters max.
marketEvaluationPoint.mRID	This field must contain: - The EIC Z code of the measurement point of the site in the case of a public electricity transmission network site (codingScheme = A01) - In the case of a site on the public distribution network, the PRM code of the site measurement point (codingScheme = NFR) Size: 3 alphanumeric characters max.
in_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the purchaser BRP (or the EIC X code of the company associated with the purchaser site) accompanied by the coding scheme, which is always "A01". Example: <in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme

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out_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the vendor BRP accompanied by the coding scheme, which is always "A01". Example: <out_MarketParticipant.mRID codingScheme="A01">10X0123456789025</out_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
marketAgreement.type	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.
marketAgreement.mRID	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.
measurement_Unit.name	This field must always contain the value "MAW" (Mega Watt) Size: 3 alphanumeric characters max.
curveType	Unused field: if present, it is ignored by RTE. It is therefore recommended not to include this field in the file.

- Series_Period class (there can be only one Series_Period per timeSeries):

FIELDS	**DESCRIPTIONS**
timeInterval	Start date/time and end date/time of the period covered by an interval. That period must be A SINGLE DAY and strictly equal to the field schedule_Time_Period.timeInterval. There must not be more than one timeInterval instance. The date/time are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval: YYYY-MM-DDTHH:MMZ
resolution	Indicate the resolution of the values. As the resolution is 30-minute intervals, this field must always contain the value "PT30M"

- Point class:

FIELDS	**DESCRIPTIONS**
position	The position is a half-hour interval. The value this field contains is a positive integer. Depending on the type of day of the delivery date, the position field must have one of the following values: - From 1 to 48 for a normal day; - From 1 to 46 for a day when clocks are switched from winter time to summer time (a 23-hour day); - From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day). The different values in the position field are unique (no duplicates) and must follow each other in sequence (no gaps).

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<table>
<tr><td></td><td>
The correspondence between the position number and the half-hour interval is as follows:
Normal day of 24 hours:
<table>
<tr><td>Position</td><td>1</td><td>2</td><td>3</td><td>---</td><td>---</td><td>47</td><td>48</td></tr>
<tr><td>Interval</td><td>00:00</td><td>00:30</td><td>01:00</td><td>---</td><td>---</td><td>23:00</td><td>23:30</td></tr>
</table>
Day of the change from winter time to summer time (23 hours):
<table>
<tr><td>Position</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>---</td><td>---</td><td>45</td><td>46</td></tr>
<tr><td>Interval</td><td>00:00</td><td>00:30</td><td>01:00</td><td>01:30</td><td>03:00</td><td>03:30</td><td>04:00</td><td>---</td><td>---</td><td>23:00</td><td>23:30</td></tr>
</table>
Day of the change from summer time to winter time (25 hours):
<table>
<tr><td>Position</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr>
<tr><td>Interval</td><td>00:00</td><td>00:30</td><td>01:00</td><td>01:30</td><td>02:00</td><td>02:30</td><td>02:00</td><td>02:30</td></tr>
<tr><td>Position</td><td>9</td><td>10</td><td>---</td><td>---</td><td>47</td><td>48</td><td>49</td><td>50</td></tr>
<tr><td>Interval</td><td>03:00</td><td>03:30</td><td>---</td><td>---</td><td>22:00</td><td>22:30</td><td>23:00</td><td>23:30</td></tr>
</table>
Positions 7 and 8 correspond to the half-hour intervals of the additional hour arising from the time change.
</td></tr>
<tr><td>quantity</td><td>Value (in megawatts) of the block exchange for a position.
Each value is a number with a maximum of 3 digits after the decimal point, greater than or equal to zero.
For example, these are possible values:
12
12,0
12,00
12,000
12,1
12,12
12,125</td></tr>
</table>

- Reason class:

Reason class items can be associated in the TimeSeries class or in the point class. In all cases, reason class fields are ignored by RTE. It is therefore recommended not to include reason class in the schedule document.

The EICs of all the active parties in the French market are available on the RTE website at the following address: https://clients.rte-france.com/lang/fr/clients_producteurs/services_clients/eic_codes.jsp

4.2 Acknowledgement document

The name format of the acknowledgement of reception document is as follows:

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```
NEB_ACK_<status>_<EIC of the recipient BRP>_<date/time of generation of the
   file>.xml
```

Where:

- <status> is the acknowledgement status: "KO" if the processed file is rejected by the NEB application, "OK" if the file is accepted by the NEB application.
- <EIC of the recipient BRP> is the EIC X code of the BRP receiving the file.
- <date/time of file generation> is the date and time of the generation of the file in the format YYYYMMDDHHMMSS.

Example of a file name:
a BRP with the EIC "10X0123456789012", to which RTE sends an acknowledgement generated by RTE on 12/10/2019 at 11:01:24 following processing of a file from the BRP.
If the BRP's file is determined to be compliant by RTE, the name of the acknowledgement file is as follows:
NEB_ACK_OK_10X0123456789012_20191012110124.xml
If the BRP's file is determined to be non-compliant by RTE, the name of the acknowledgement file is as follows:
NEB_ACK_REJ_10X0123456789012_20191012110124.xml

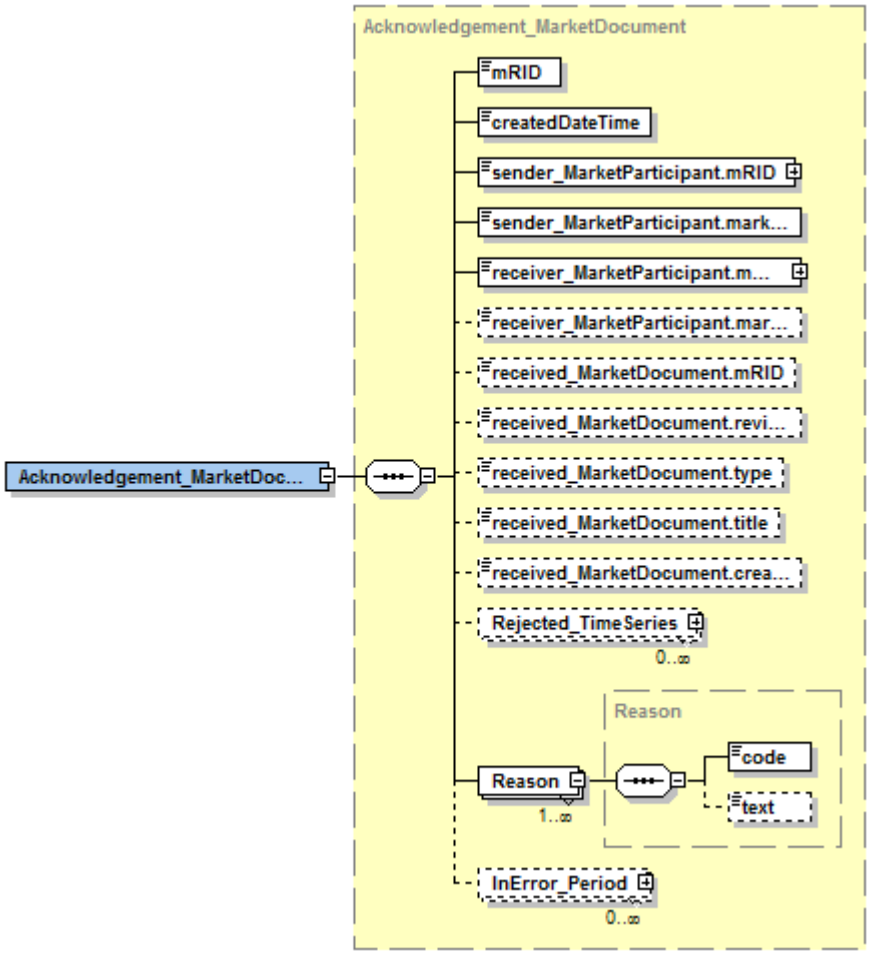
The acknowledgement uses the following XSD files:

- iec62325-451-1-acknowledgement_v7_0.xsd
- urn-entsoe-eu-wgedi-codelists.xsd
- urn-entsoe-eu-local-extension-types.xsd

These XSD files are provided by RTE on request. These XSD files (and not those available on the ENTSOE website) are used to generate the acknowledgement of reception file.
The encoding is UTF-8.

The information template of the acknowledgement document is as follows:

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The meaning of the fields in this template is as follows:

- Acknowledgement document class:

FIELDS	DESCRIPTIONS
mRID	This field is the ID of the acknowledgement of reception document. The value this field contains is unique for all files (acknowledgement of reception, anomaly report, confirmation report, publication report) generated by the NEB application. Size: 35 alphanumeric characters max.
createdDateTime	Date and time of generation of the acknowledgement file by the NEB application. The date/time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MM:SSZ

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FIELDS	DESCRIPTIONS
sender_MarketParticipant.mRID	The value in this tag is always the RTE ID code, which is "10XFR-RTE------Q", accompanied by the coding scheme "A01". Example: <sender_MarketParticipant.mRID codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
sender_MarketParticipant.marketRole.type	The value in this tag is always "A04" (System Operator) Size: 3 alphanumeric characters max.
receiver_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the BRP that sent the request pertaining to the NEB application's acknowledgement. This is the recipient BRP of the acknowledgement. The coding scheme is "A01" Example: <receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
receiver_MarketParticipant.marketRole.type	The value in this tag is "A08" (Balance responsible party) Size: 3 alphanumeric characters max.
received_MarketDocument.mRID	The value in this tag is the same as that in the mRID field in the document for which the acknowledgement document is generated. Size: 35 alphanumeric characters max.
received_MarketDocument.revisionNumber	This tag is present in cases where the acknowledgement follows a schedule document. In that case, the value in this tag is the same as that in the revisionNumber field of the schedule document for which the acknowledgement document is generated. Size: 3 numeric characters max.
received_MarketDocument.type	This tag is present in cases where the acknowledgement follows a schedule document. In that case, the value in this tag is the same as that in the type field of the schedule document for which the acknowledgement document is generated. Size: 3 alphanumeric characters max.
received_MarketDocument.title	The value in this tag is the same as the name of the file (in the case of a file upload) for which the acknowledgement document is generated. Size: 150 alphanumeric characters max.

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FIELDS	DESCRIPTIONS
received_MarketDocument.createdDateTime	This tag is always present and is identical to the date/time of reception of the request received from the BRP to be converted in to UTC time (format: YYYY-MM-DDTHH:MM:SSZ).

- "Reason" class fields
  - code:
    - At least one code is always present (size: 3 alphanumeric characters max.).
    - The codes used are specified below.
  - text:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters max.).
    - The texts to be included in this tag are specified below.

The "TimeSeriesRejection" and "TimeIntervalError" classes are not used.

List of the code and text field values:

Value of the code field	Value of the text field	Comments
A01	Message fully accepted	Schedule document compliant
A02	Message fully rejected. sender_MarketParticipant.mRID not valid.	File rejected as non-compliant: The sender_MarketParticipant.mRID field does not contain the required value.
A94	Message fully rejected. Several or no xml request	File rejected as non-compliant: there is not a single XML file.
A94	Document cannot be processed by receiving system. Format file must be XML	File rejected as non-compliant: the received file is not an XML file.
A94	Document cannot be processed by receiving system. Incorrect format file.	File rejected as non-compliant: the received file can not be read by RTE.
A02	Message fully rejected. Some fields with unexpected values.	File rejected as non-compliant: Some fields do not contain the required values.

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Value of the code field	Value of the text field	Comments
A02	Message fully rejected. Incorrect value for Sender/Receiver Role or Receiver Identification.	File rejected as non-compliant: the fields sender_MarketParticipant.marketRole.type , or receiver_MarketParticipant.marketRole.type, or receiver_MarketParticipant.mRID do not contain the required values.
A02	Message fully rejected. Lower value of revisionNumber relative to Senders Time Series Version	File rejected as non-compliant: The value of the revisionNumber field is lower than the version field of a PEB.
A02	Message fully rejected. revisionNumber value already existing higher or equal.	File rejected as non-compliant: RTE already has a file with the same mRID with a revisionNumber value that is higher than or equal to that in the received file.
A02	Message fully rejected. Noncompliant dates for schedule_Time_Period.timeInterval or timeInterval fields	File rejected as non-compliant: the date format of the schedule_Time_Period.timeInterval fields is incorrect, or the values in the schedule and timeInterval fields are not equal.
A04	Message fully rejected. Time interval incorrect.	File rejected as non-compliant: the period of the schedule_Time_Period.timeInterval field is incorrect. The file must be sent between D-30 and 4.30pm on D-1 for the A01 process. The file must be sent between 4.30pm on D-1 and 11.30pm on the day of the block exchange for the A18 process.
A02	Message fully rejected. EIC code non conform.	Message rejected (file rejected): the sender's EIC is not compliant.
A05	Sender without valid BRPP contract	Message rejected (file rejected): the sender of the mail does not have a valid BRP participation agreement.

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Value of the code field	Value of the text field	Comments
A02	Message fully rejected. Sender has to be seller (out_MarketParticipant.mRID) or buyer (in_MarketParticipant.mRID) within file.	File rejected as non-compliant: the sender identified in the sender_MarketParticipant.mRID field of the file is neither the vendor BRP (out_MarketParticipant.mRID field), nor the purchaser BRP (in_MarketParticipant.mRID field).
A02	Message fully rejected. Counterpart unknown or without valid BRP contract.	File rejected as non-compliant: A counterpart BRP is unknown to RTE or does not have a valid BRP participation agreement.
A02	Message fully rejected. Counterpart Site unknown or without valid NEB-Site contract.	File rejected as non-compliant: A counterpart consumption site is unknown to RTE or does not have a valid NEB-site contract.
A02	Message fully rejected. Position inconsistency.	File rejected as non-compliant: the number of occurrences of the position field is not consistent with the type of day, or the position field values are incorrect.
A02	Message fully rejected. A request for D day cannot change previous values	File rejected as non-compliant: some block exchange values have been modified for the half-hour intervals preceding the time of reception.

4.3 Anomaly report

The anomaly report is an xml document used to inform the BRP(s) about their unmatched PEBs.
It contains all the anomalous PEBs as well as the reasons for the anomaly.
It is sent in response to an "anomaly report" status request.
It can be accessed via the HMIs. It is possible to retrieve the
anomaly reports from previous days within the last 365 days and 30 days into the future (from 12.00am on D-30).
The name format of the anomaly report is as follows:

```
NEB_AnomalyReport_<EIC of the recipient BRP>_<delivery
   date>_<process.processType>_<date/time of generation of the file>.xml
```

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Where:

- <EIC of the recipient BRP> is the EIC X code of the BRP receiving the anomaly report.
- <delivery date> is the delivery date of the PEB in the date format YYYYMMDD.
- <process.processType> is the process.processType of the sent document (A01 for day ahead or A18 for intraday)
- <date/time of file generation> is the date and time of the generation of the file in the format YYYYMMDDHHMMSS.

Example of a file name:
for a BRP with the EIC "10X0123456789012", for which RTE addresses an anomaly report generated on 12/10/2019 at 00:01:24 and relating to a schedule document from the BRP with the unmatched PEBs for delivery date 12/10/2019, the name of the anomaly report is as follows:
NEB_AnomalyReport_10X0123456789012_20191012_A18_20191012000124.xml

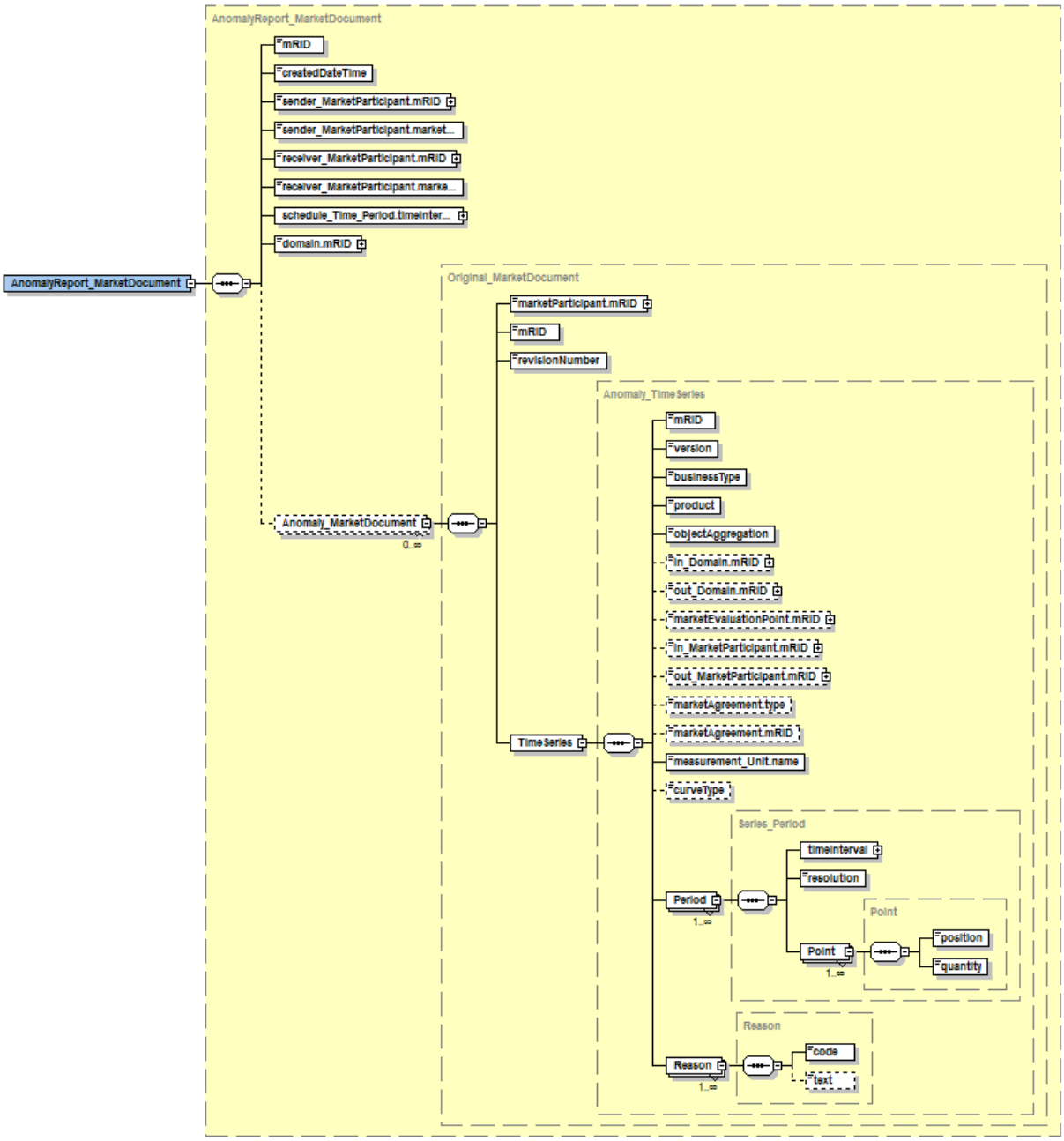
The anomaly report uses the following XSD file:

- iec62325-451-2-anomaly_v5_0.xsd
- urn-entsoe-eu-wgedi-codelists.xsd
- urn-entsoe-eu-local-extension-types.xsd

These XSD files are provided by RTE on request. These XSD files (and not those available on the ENTSOE website) are used to generate the anomaly report file.
The encoding is UTF-8.

The information template of the anomaly report is as follows:

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The meaning of the fields in this template is as follows:
Only the used fields that must be present in the file are explained.

- Anomaly report class:

FIELDS	DESCRIPTIONS
mRID	This field is the anomaly report ID. The value this field contains is unique for all files (acknowledgement of reception, anomaly report, confirmation report, publication report) generated by the NEB application. Size: 35 alphanumeric characters max.

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FIELDS	DESCRIPTIONS
createdDateTime	Date and time of generation of the anomaly report by the NEB application. The date/time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MM:SSZ
sender_MarketParticipant.mRID	The value in this tag is always the RTE ID code, which is "10XFR-RTE------Q", accompanied by the coding scheme "A01". Example: <sender_MarketParticipant.mRID codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
sender_MarketParticipant.marketRole.type	The value in this tag is always "A04" (System Operator) Size: 3 alphanumeric characters max.
receiver_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the recipient BRP of the anomaly report generated by the NEB application. The coding scheme is "A01" Example: <receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
receiver_MarketParticipant.marketRole.type	The value in this tag is "A08" (Balance responsible party) Size: 3 alphanumeric characters max.

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FIELDS	DESCRIPTIONS
schedule_Time_Period.timeInterva	Start date/time and end date/time of the period covered by the anomaly report. In our case, that period must cover A SINGLE DAY, and correspond to the delivery date for which the anomaly report is generated. The date/time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ The start date/time is necessarily equal to the end date/time – 1 day. If the date falls within the summer time period, the time (HH:MM) must equal 22:00. If the date falls within the winter time period, the time (HH:MM) must equal 23:00. Example taking the date of 1 October 2014: <schedule_Time_Period.timeInterval> <start>2014-09-30T22:00Z</start> <end>2014-10-01T22:00Z</end> </schedule_Time_Period.timeInterval> Example taking the date of 26 October 2014 (the date of the change to winter time): <schedule_Time_Period.timeInterval> <start>2014-10-25T22:00Z</start> <end>2014-10-26T23:00Z</end> </schedule_Time_Period.timeInterval>
domain.mRID	This value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01". Size: 18 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme

- Anomaly_MarketDocument class:

FIELDS	DESCRIPTION
marketParticipant.mRID	The value in this tag must contain the EIC X code of the BRP for which the NEB application generated an anomaly report. This is the recipient BRP of the anomaly report. The coding scheme is "A01" Example: <marketParticipant.mRID codingScheme="A01">10X0123456789012</ marketParticipant.mRID> Size: 18 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme

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mRID	Corresponds to the mRID field of the schedule document from the BRP (the BRP to which the anomaly report is sent). The anomaly report is generated by the NEB application on the basis of this request. Size: 35 alphanumeric characters max.
revisionNumber	Corresponds to the revisionNumber field of the schedule document from the BRP (the BRP to which the anomaly report is sent). The anomaly report is generated by the NEB application on the basis of this request. Size: 3 numeric characters max.

- Anomaly_TimeSeries class:

FIELDS	**DESCRIPTION**
mRID	Corresponds to the ID (mRID) of the anomalous PEB. Size: 35 alphanumeric characters max.
version	Corresponds to the version of the anomalous PEB. Size: 3 numeric characters max.
businessType	This field always contains the value: "A02" (Internal trade) Size: 3 alphanumeric characters max.
product	The value this field contains is "8716867000016" (Active Power) Size: 13 numeric characters max.
objectAggregation	This field is used to indicate whether the PEB type is BRP-BRP or BRP-site. This field can contain the following values: - "A03" (Party) for a BRP-BRP PEB - "A02" (Metering Point) for a BRP-site PEB Size: 3 alphanumeric characters max.
in_Domain.mRID	The value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01". Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
out_Domain.mRID	The value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01". Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme

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in_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the purchaser BRP (or the EIC X code of the company associated with the purchaser site) accompanied by the coding scheme, which is always "A01". Example: <in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
out_MarketParticipant.mRID	EIC X code of the vendor BRP of the PEB identified in the preceding fields. The value in this tag must contain the EIC X code of the vendor BRP accompanied by the coding scheme, which is always "A01". Example: <out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
measurement_Unit.name	The value this field contains is "MAW" (megawatts) Size: 3 alphanumeric characters max.

- Period class:

FIELDS	**DESCRIPTION**
timeInterval	Start date/time and end date/time of the period covered by an interval. This period must be identical to that in the schedule_Time_Period.timeInterval field. The date/time are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval: YYYY-MM-DDTHH:MMZ
resolution	This field contains the value "PT30M" for a 30-minute interval.

- Point class:

FIELDS	**DESCRIPTION**
position	Position of a programming interval (30 minutes). Depending on the type of day of the delivery date, the position field contains one of the following values: From 1 to 48 for a normal day; From 1 to 46 for a day when clocks are switched from winter time to summer time (a 23-hour day);

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	From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day). The different values in the position field are unique (no duplicates).
quantity	Value (in megawatts) of the block exchange for a position. Each value is a number with a maximum of 3 digits after the decimal point, greater than or equal to zero. For a PEB awaiting matching, the values are those of the PEB awaiting matching. For a PEB awaiting nomination, the values are those from the counterpart's PEB. For an obsolete PEB, the values are those from the obsolete PEB. If a PEB is matched while its status is pending, the values are those from the matched PEB. If a matched PEB is obsolete, the values are those from the matched obsolete PEB.

- Reason class (associated with an Anomaly_TimeSeries as shown in the information template):
  - "Code" field:
    - At least one code is required (size: 3 alphanumeric characters max.).
    - The codes used are specified below.
  - "Text" field:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters max.).
    - The texts to be included in this tag are specified below.

List of the code and text field values:

Value of the code field	**Value of the text field**	**Comments**
A28	Counterpart time series missing.	RTE has not (yet) received a compliant PEB from the counterpart BRP.
A87	For action	RTE has received the PEB from the counterpart BRP but not from the BRP that made the request.
A57	End of DA process without counterpart nomination	The D-1 window has elapsed and RTE has not received the PEB from the counterpart.

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Value of the code field	Value of the text field	Comments
A57	Deadline passed without counterpart nomination	The nomination time limit has elapsed and RTE has not received the PEB from the counterpart.
A67	Limit Data is not available	Before carrying out the financial protection check (before 3.00pm on D-1), all the PEBs have the status "pending" when RTE does not yet know all the limiting parameters.
A87	For action: limit not yet validated for the timeseries	Before carrying out the financial protection check, if the BRP has exceeded its limit, it still has time to adjust its block exchanges up until 4.30pm on D-1; or, in the intraday process, up to the counterpart's nomination time. The matched PEBs causing the limit to be exceeded are "pending".
A09	Timeseries not matching. Quantity differences	The PEB is matched, pending, and not consistent with its counterpart.
A09	Quantity differences	The PEB is matched, pending, and not consistent with its counterpart; all the inconsistent intervals in the PEB have this code and this text.
A08	The schedule timeseries has been rejected	The matched PEB was rejected; either at 4.30pm at the closure of the D-1 window, or at the counterpart's time limit for reception in the intraday process.
A10	Daily energy trading limit exceeded. Timeseries not accepted	The BRP's authorized daily energy allowance was exceeded at the closure of the window or at the counterpart's time limit for nomination.

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Value of the code field	Value of the text field	Comments
A10	Daily energy trading limit exceeded by your counterpart. Timeseries not accepted	The counterpart BRP's authorized daily energy allowance was exceeded at the closure of the window or at the counterpart's time limit for nomination.

4.4 Confirmation report

The confirmation report is an xml document used to inform the BRP(s) about their matched PEBs.

- It contains all the matched PEBs with validated status resulting from the sending of a schedule document.
- It is sent in response to a "confirmation report" status request.
- It can be accessed via the HMIs. It is possible to retrieve the confirmation reports from previous days within the last 365 days and 1 day into the future (from 12.00am on D-1).

The name format of the confirmation report is as follows:

```
NEB_ConfirmationReport_<EIC of the recipient BRP>_<delivery
   date>_<process.processType>_<date/time of generation of the file>.xml
```

Where:
<EIC of the recipient BRP> is the EIC X code of the BRP receiving the confirmation report.
<delivery date> is the delivery date of the block exchange in the date format YYYYMMDD.
<process.processType> is the process.processType of the sent document (A01 for day ahead or A18 for intraday)
<date/time of file generation> is the date and time of the generation of the file in the format YYYYMMDDHHMMSS.

Example of a file name:
for a BRP with the EIC "10X0123456789012", for which RTE addresses a confirmation report generated on 12/10/2019 at 15:01:24 and relating to a schedule document from the BRP for delivery date 12/10/2019, the name of the confirmation report is as follows:
NEB_ConfirmationReport_10X0123456789012_20191012_A18_20191012150124.xml
The confirmation report uses the following XSD files:

- iec62325-451-2-confirmation_v5_0.xsd
- urn-entsoe-eu-wgedi-codelists.xsd

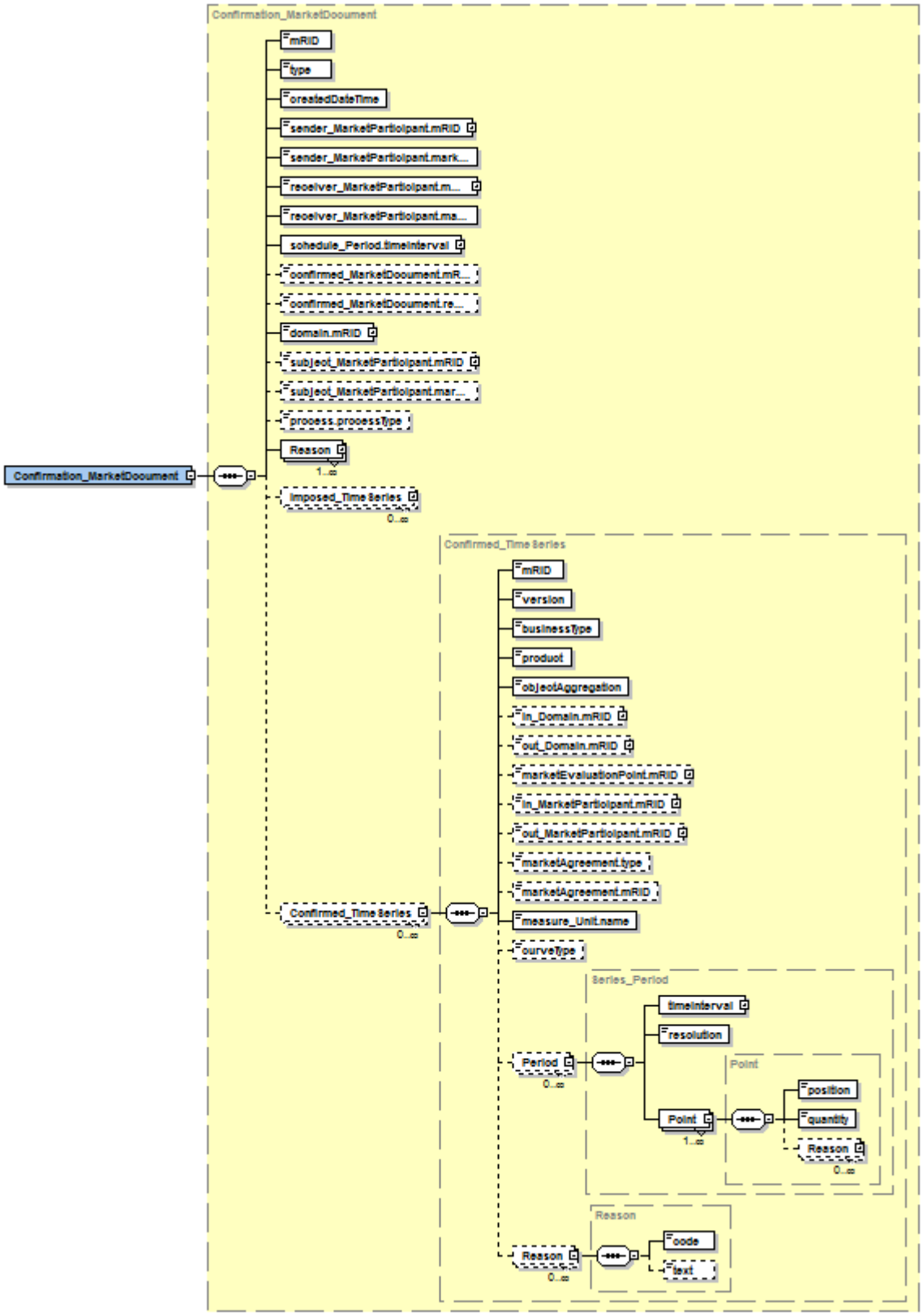
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- urn-entsoe-eu-local-extension-types.xsd

These XSD files are provided by RTE on request. These XSD files (and not those available on the ENTSOE website) are used to generate the confirmation report file. The encoding is UTF-8.

The information template for the confirmation report document is as follows:
Only the used fields that must be present in the file are explained.

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The meaning of the fields in this template is as follows:

- ConfirmationReport class:

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FIELDS	DESCRIPTION
mRID	This field is the confirmation report ID. The value this field contains must be unique for all files (acknowledgement of reception, anomaly report, confirmation report, publication report) generated by the NEB application. Size: 35 alphanumeric characters max.
type	This field can contain the value "A07" (intermediate confirmation report) or "A08" (final confirmation report). It is a final confirmation report in the event that: - The processType is A01 and the D-1 4.30pm fixing window has closed. - The processType is A18 and the last interval has begun (nomination no longer possible, at 11.30pm for a 30-minute interval). Otherwise, it is an intermediate confirmation report. Size: 3 alphanumeric characters max.
createdDateTime	Date and time of generation of the confirmation report by the NEB application. The date/time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MM:SSZ
sender_MarketParticipant.mRID	The value in this tag is always the RTE ID: "10XFR-RTE------Q" accompanied by the coding scheme, which is "A01". Example: <sender_MarketParticipant.mRID codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
sender_MarketParticipant.marketRole.type	The value in this tag is always "A04" (System Operator) Size: 3 alphanumeric characters max.
receiver_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the BRP for which the NEB application generated a confirmation report. This is the recipient BRP of the confirmation report. The coding scheme is "A01" Example: <receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
receiver_MarketParticipant.marketRole.type	The value in this tag is "A08" (Balance responsible party) Size: 3 alphanumeric characters max.

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FIELDS	DESCRIPTION
schedule_Period.timeInterval	Start date/time and end date/time of the period covered by the confirmation report. In our case, that period must cover A SINGLE DAY, and correspond to the delivery date of the schedule document for which the confirmation report is generated. The date/time must be expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ The start date/time is necessarily equal to the end date/time – 1 day. If the date falls within the summer time period, the time (HH:MM) must equal 22:00. If the date falls within the winter time period, the time (HH:MM) must equal 23:00. Example taking the date of 1 October 2014: <schedule_Time_Period.timeInterval> <start>2014-09-30T22:00Z</start> <end>2014-10-01T22:00Z</end> </schedule_Time_Period.timeInterval> Example taking the date of 26 October 2014 (the date of the change to winter time): <schedule_Time_Period.timeInterval> <start>2014-10-25T22:00Z</start> <end>2014-10-26T23:00Z</end> </schedule_Time_Period.timeInterval>
confirmed_MarketDocument.mRID	Corresponds to the mRID field of the schedule document from the BRP (the BRP to which the confirmation report is sent). The confirmation report is generated by the NEB application on the basis of this request. Size: 35 alphanumeric characters max.
confirmed_MarketDocument.revisionNumber	Corresponds to the revisionNumber field of the schedule document from the BRP (the BRP to which the confirmation report is sent). The confirmation report is generated by the NEB application on the basis of this request. Size: 3 numeric characters max.
domain.mRID	This value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01". Size: 18 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
process.processType	This field can contain the value "A01" (day ahead) or "A18" (intraday total) Size: 3 alphanumeric characters max.

- The reason class associated with a ConfirmationReport is required:
  - "Code" field:

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- At least one code is required (size: 3 alphanumeric characters max.).
- The codes used are specified below.

o "Text" field:

- For each code, this tag is always filled in (size: 512 alphanumeric characters max.).
- The texts to be included in this tag are specified below.

List of the code and text field values:

Value of the code field	**Value of the text field**	**Comments**
A06	Schedule accepted	All of the PEBs (from the schedule document for which the confirmation report is sent) have matched PEBs with the status "validated" and the attribute "consistent". In particular, this means that there can be an "A06" confirmation report even while there are still matched PEBs pending (since a validated matched PEB and another which is pending can exist at the same time).
A07	Schedule partially accepted	There is at least one matched PEB relating to a PEB (from the schedule document for which the confirmation report was sent) that does not have the status "validated" or that does not have the attribute "consistent".

- Confirmed_TimeSeries class:

FIELDS	**DESCRIPTION**
mRID	Corresponds to the mRID field of the PEB that is confirmed. Size: 35 alphanumeric characters max.
version	Corresponds to the version field of the PEB that is confirmed. Size: 3 numeric characters max.
businessType	This field always contains the value: "A02" (Internal trade)
product	The value this field contains is "8716867000016" (Active Power) Size: 13 numeric characters max.
objectAggregation	This field is used to indicate whether the PEB type is BRP-BRP or BRP-site.

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FIELDS	DESCRIPTION
	This field can contain the following values: - "A03" (Party) for a BRP-BRP PEB - "A02" (Metering Point) for a BRP-site PEB Size: 3 alphanumeric characters max.
in_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the purchaser BRP (or the EIC X code of the company associated with the purchaser site) from the schedule document that is the subject of the confirmation report, accompanied by the coding scheme, which is always "A01". Example: <in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
out_MarketParticipant.mRID	EIC X code of the vendor BRP from the schedule document that is the subject of the confirmation report. The value in this tag must contain the EIC code of the vendor BRP accompanied by the coding scheme, which is always "A01". Example: <out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
measure_Unit.name	The value this field contains is "MAW" (megawatts) Size: 3 alphanumeric characters max.

- Imposed_TimeSeries class:

FIELDS	DESCRIPTION
mRID	Corresponds to the mRID field of the imposed PEB. Size: 35 alphanumeric characters max.
version	Corresponds to the version field of the imposed PEB. Size: 3 numeric characters max.
businessType	This field always contains the value: "A02" (Internal trade)
product	The value this field contains is "8716867000016" (Active Power) Size: 13 numeric characters max.
objectAggregation	This field is used to indicate whether the PEB type is BRP-BRP or BRP-site. This field can contain the following values: - "A03" (Party) for a BRP-BRP PEB - "A02" (Metering Point) for a BRP-site PEB

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FIELDS	DESCRIPTION
	Size: 3 alphanumeric characters max.
in_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the purchaser BRP (or the EIC X code of the company associated with the purchaser site) from the schedule document that is the subject of the confirmation report, accompanied by the coding scheme, which is always "A01". Example: <in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
out_MarketParticipant.mRID	EIC code of the vendor BRP from the schedule document that is the subject of the confirmation report. The value in this tag must contain the EIC X code of the vendor BRP accompanied by the coding scheme, which is always "A01". Example: <out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
measure_Unit.name	The value this field contains is "MAW" (megawatts) Size: 3 alphanumeric characters max.

- Period class:

FIELDS	DESCRIPTION
timeInterval	Start date/time and end date/time of the period covered by an interval. This period must be identical to that in the schedule_Time_Period.timeInterval field. The date/time are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval: YYYY-MM-DDTHH:MMZ
resolution	Resolution of the values. The resolution is at 30-minute intervals. The value is this field is "PT30M".

- Point class:

FIELDS	**DESCRIPTION**
position	The position is a half-hour interval. The value this field contains is a positive integer.

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	Depending on the type of day of the delivery date, the position field contains one of the following values: - From 1 to 48 for a normal day; - From 1 to 46 for a day when clocks are switched from winter time to summer time (a 23-hour day); - From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day). The different values in the position field are unique (no duplicates, no gaps).
quantity	MW value of the PEB (for a Time Series Confirmation) or of the matched PEB (in the case of an Imposed Time Series) with the status "matched" for one position. Each value must be a number with a maximum of 3 digits after the decimal point, greater than or equal to zero.

- Reason class associated with the classes Confirmed_TimeSeries and Imposed_TimeSeries:
  - "Code" field:
    - At least one code is required (size: 3 alphanumeric characters max.).
    - The codes used are specified below.
  - "Text" field:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters max.).
    - The texts to be included in this tag are specified below.

List of the code and text field values:

Value of the code field	**Value of the text field**	**Comments**
A01	Message fully accepted	The PEB is matched, validated, and "consistent" (Confirmed_TimeSeries class).
A09	Time series not matching. Quantity differences.	The PEB is matched and validated but "inconsistent" (Imposed_TimeSeries class).
A09	Quantity differences	The PEB is matched and validated but is not consistent with its counterpart. All the inconsistent intervals in the PEB have this code and this text.

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4.5 Publication report

The publication report is an XML document of the same type as the schedule document. In addition, it uses the xsd data files.
The publication report is used to inform a BRP of its daily energy consumption, its daily energy allowance, the projected assessment of its declarative imbalance, as well as other detailed TimeSeries for a given delivery date. This file is sent on request. It is possible to retrieve the publication reports from previous days within the last 30 days and 1 day into the future (from 12.00am on D-1).
The name format of the publication report is as follows:

```
NEB_PublicationReport_<EIC of the recipient BRP>_<delivery date >_<doc
   version>_<date/time of generation of the file>.xml
```

Where:

- <EIC of the recipient BRP> is the EIC X code of the BRP receiving the publication report.
- <delivery date> is the delivery date of the matched PEB, in the date format YYYYMMDD.
- <doc version> is the version of the publication report for that BRP.
- <date/time of file generation> is the date and time of the generation of the file in the format YYYYMMDDHHMMSS.

Example of a file name:
for a BRP with the EIC "10X0123456789012", for which RTE addresses a confirmation report generated on 12/10/2019 at 15:01:24 and relating to the delivery date 12/10/2019 for the second time, the name of the publication report is as follows:
NEB_PublicationReport_10X0123456789012_20191012_2_20191012150124.xml

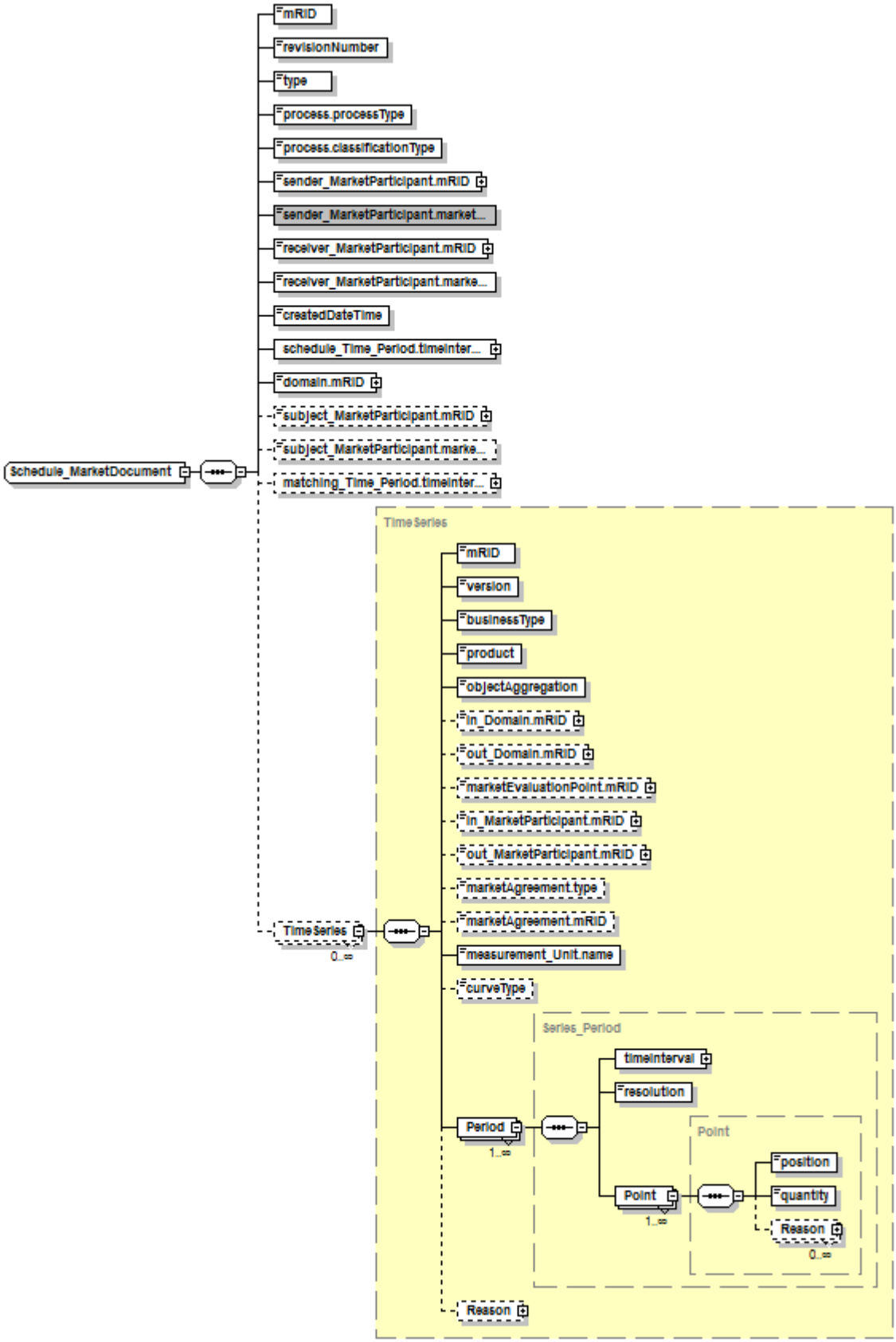
The publication report uses the following XSD files:

- iec62325-451-2-schedule_v5_0.xsd
- urn-entsoe-eu-wgedi-codelists.xsd
- urn-entsoe-eu-local-extension-types.xsd

These XSD files are provided by RTE on request. These XSD files (and not those available on the ENTSOE website) are used to generate the publication report file.
The encoding is UTF-8.

The information template for the publication report document is as follows:

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The meaning of the fields in this template is as follows:
Only the used fields that must be present in the file are explained.

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- Schedule_MarketDocument class:

FIELDS	DESCRIPTIONS
mRID	This field is the publication report ID. The value this field contains must be unique for all files (acknowledgement of reception, anomaly report, confirmation report, publication report) generated by the NEB application. Size: 35 alphanumeric characters max.
revisionNumber	Document version number (value between 1 and 999). The first publication report sent to a BRP for a given delivery date has the version number 1. Each time a new publication report is sent to the same BRP for the same delivery date, the version number is incremented by 1. Size: 3 numeric characters max.
type	This field must always contain the value "A12" (Imbalance report). Size: 3 alphanumeric characters max.
process.processType	This field must contain the value "A17" (Schedule day). Size: 3 alphanumeric characters max.
process.classification Type	This field may be: - "A01" (Detail Type) in the case of sending sales and purchases. - "A02" (Summary type) in the case of sending assessments. Size: 3 alphanumeric characters max.
sender_MarketParticipant.mRID	The value in this tag is always the RTE ID code, which is "10XFR-RTE------Q", accompanied by the coding scheme "A01". Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
sender_MarketParticipant.marketRole.type	The value in this tag is always "A04" (System Operator). Size: 3 alphanumeric characters max.
receiver_MarketParticipant.mRID	The value in this tag must contain the EIC X code of the BRP for which the NEB application generated a publication report. This is the recipient BRP of the publication report. The coding scheme is "A01" Example: <receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID> Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
receiver_MarketParticipant.marketRole.type	The value in this tag is "A08" (Balance responsible party) Size: 3 alphanumeric characters max.

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createdDateTime	Date and time of generation of the publication report by the NEB application. The date/time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MM:SSZ
schedule_Time_Period.timeInterval	Start date/time and end date/time of the period covered by the publication report. In our case, that period must cover A SINGLE DAY, and correspond to the delivery date for which the publication report is generated. The date/time must be expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ
domain.mRID	This field must always contain the value "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01" Size: 18 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme

- TimeSeries class:

FIELDS	DESCRIPTIONS
mRID	Unique ID of the TimeSeries in the publication. Size: 35 alphanumeric characters max.
version	TimeSeries version number (value between 1 and 999). Size: 3 numeric characters max.
businessType	This is the market type: - SPOT EPEX: ZX1 - SPOT NORDPOOL: ZX2 - Futures: ZX3 - INFRA EPEX: ZX4 - INFRA NORDPOOL: ZX5 - Interco: A03 - NEB: ZX6 - VEJ: A24 (Total trade) - VEJA: ZX8 - Losses: A15 - ARENH: ZX7 - Declarative assessment: A20 (Forecast imbalance volume) The business types are not permanent. Size: 3 alphanumeric characters max.
product	This field must always contain the value "8716867000016" (Active Power) Size: 13 numeric characters max.
objectAggregation	This field must be "A03" (Party). It is used to indicate that it is an aggregation by BRP. Size: 3 alphanumeric characters max.

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in_MarketParticipant.mRID	This is the EIC X code of the purchaser BRP in the case of a purchase. The codingscheme is A01. It is empty in the case of a sale or assessment. Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
out_MarketParticipant.mRID	This is the EIC X code of the vendor BRP in the case of a sale or an assessment. The codingscheme is A01. It is empty in the case of a purchase. Size: 16 alphanumeric characters for the EIC Size: 3 alphanumeric characters for the codingScheme
measurement_Unit.name	This field contains the value "MWH" for the value of a half-hour interval and for a daily total. Size: 3 alphanumeric characters max.

The reason class can exist in the TimeSeries class: it is indicated there if an element of data is missing or if the assessment is only partial.

- Reason class (associated with the TimeSeries class):
  - "Code" field:
    - At least one code is required (size: 3 alphanumeric characters max.).
    - The codes used are specified below.
  - "Text" field:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters max.).
    - The texts to be included in this tag are specified below.

List of the code and text field values:

Value of the code field	**Value of the text field**	**Comments**
B08	Data not yet available	If the requested TimeSeries is not yet available.
B01	Estimation with partial data	If the TimeSeries is an incomplete assessment, i.e. there is data missing from the calculation.

- Series_Period class:

FIELDS	**DESCRIPTIONS**

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timeInterval	Start date/time and end date/time of the period covered by an interval. That period must be A SINGLE DAY and strictly equal to the field schedule_Time_Period.timeInterval. There must not be more than one timeInterval instance. The date/time are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval: YYYY-MM-DDTHH:MMZ
resolution	Indicate the resolution of the values. Two resolutions can be requested: - PT30M (except in the case of a VEJA TimeSeries) - P1D for all TimeSeries

- Point class:

FIELDS	**DESCRIPTIONS**
position	The position is a half-hour interval. The value this field contains is a positive integer. Depending on the type of day of the delivery date, the position field must have one of the following values: - From 1 to 48 for a normal day; - From 1 to 46 for a day when clocks are switched from winter time to summer time (a 23-hour day); - From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day). The different values in the position field are unique (no duplicates) and must follow each other in sequence (no gaps).
quantity	Value (in MWH) of the block exchange for a position. Each value is a decimal number. Value (in MWH) for a daily total. Each value is a number with a maximum of 3 digits after the decimal point.

- Reason class:

The reason class does not exist in the point class.
With regard to the data to be published, in summary:

Record	**BusinessType**	**process.classificationType**	**in_MarketParticipant.mRID**	**out_MarketParticipant.mRID**	**resolution**
SPOT EPEX sale	ZX1 (SPOT EPEX)	A01		BRP	PT30M or P1D
SPOT NORDPOOL sale	ZX2 (SPOT NORDPOOL)	A01		BRP	PT30M or P1D
Futures sale	ZX3 (Futures)	A01		BRP	PT30M or P1D
INFRA EPEX sale	ZX4 (NFRA EPEX)	A01		BRP	PT30M or P1D

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INFRA NORDPOOL sale	ZX5 (INFRA NORDPOOL)	A01		BRP	PT30M or P1D
Interco sale	A03 (Interco)	A01		BRP	PT30M or P1D
NEB sale	ZX6 (NEB)	A01		BRP	PT30M or P1D
VEJ sale	A24 (VEJ)	A01		BRP	PT30M or P1D
Losses sale	A15 (Losses)	A01		BRP	PT30M or P1D
ARENH sale	ZX7 (ARENH)	A01		BRP	PT30M or P1D
Declarative assessment sale	A20 (BD)	A01		BRP	PT30M or P1D
SPOT EPEX purchase	ZX1 (SPOT EPEX)	A01	BRP		PT30M or P1D
SPOT NORDPOOL purchase	ZX2 (SPOT NORDPOOL)	A01	BRP		PT30M or P1D
Futures purchase	ZX3 (Futures)	A01	BRP		PT30M or P1D
INFRA EPEX purchase	ZX4 (NFRA EPEX)	A01	BRP		PT30M or P1D
INFRA NORDPOOL purchase	ZX5 (INFRA NORDPOOL)	A01	BRP		PT30M or P1D
Interco purchase	A03 (Interco)	A01	BRP		PT30M or P1D
NEB purchase	ZX6 (NEB)	A01	BRP		PT30M or P1D
VEJ purchase	A24 (VEJ)	A01	BRP		PT30M or P1D
Losses purchase	A15 (Losses)	A01	BRP		PT30M or P1D
ARENH purchase	ZX7 (ARENH)	A01	BRP		PT30M or P1D
Declarative assessment purchase	A20 (BD)	A01	BRP		PT30M or P1D
SPOT EPEX assessment	ZX1 (SPOT EPEX)	A02		BRP	PT30M or P1D
SPOT NORDPOOL assessment	ZX2 (SPOT NORDPOOL)	A02		BRP	PT30M or P1D
Futures assessment	ZX3 (Futures)	A02		BRP	PT30M or P1D
INFRA EPEX assessment	ZX4 (NFRA EPEX)	A02		BRP	PT30M or P1D
INFRA NORDPOOL assessment	ZX5 (INFRA NORDPOOL)	A02		BRP	PT30M or P1D
Interco assessment	A03 (Interco)	A02		BRP	PT30M or P1D
NEB assessment	ZX6 (NEB)	A02		BRP	PT30M or P1D
VEJ assessment	A24 (VEJ)	A02		BRP	PT30M or P1D
VEJA	ZX8 (VEJA)	A02			P1D
Losses assessment	A15 (Losses)	A02		BRP	PT30M or P1D
ARENH assessment	ZX7 (ARENH)	A02		BRP	PT30M or P1D
Declarative assessment assessment	A20 (BD)	A02		BRP	PT30M or P1D

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5. API services

These are REST requests (not SOAP).

5.1 Sending a schedule document

5.1.1 Schedule document request

Sending a schedule document is a request that provides the means to nominate the PEBs and receive an acknowledgement (OK or KO) in response.

The request type is POST.

The format of the request URL is as follows:
https://[…]/schedule_document

The schedule document must be set as a parameter.

The header must contain the standard fields of a https request.
The content type must be: application/xml

The body must contain the schedule document (4.1 Schedule document).
Unlike when sending a file, there is no document name.

5.1.2 Acknowledgement response

The header contains the standard fields of the https protocol.
The body contains the acknowledgement document (4.2 Acknowledgement document)

5.2 Sending a status request

5.2.1 NEB status request

Sending an NEB status request is a request that retrieves one of two xml documents in response:

- An anomaly report (4.3 Anomaly report)
- A confirmation report (4.4 Confirmation report)

The request type is GET.

The format of the request URL is as follows:
Https://[…]/<request type>/<EIC of the sender BRP>/<delivery date>/<process.processType>
Where:

- <request type> is the type of document wanted in return (anomaly, confirmation)

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- <EIC of sender BRP> is the EIC X code of the BRP sending the file.
- <delivery date> is the delivery date of the request in the date format YYYYMMDD.
- <process.processType> is the process.processType of the desired document (A01 for day ahead or A18 for intraday).

Example of a request:
For a BRP with the EIC "10X0123456789012" requesting an anomaly report for the delivery date 15/10/2019 via a status request generated on 14/10/2019 at 13:14:42, the format of the status request URL is as follows:
https://[...]/anomaly/10X0123456789012/20191015/A01

5.2.2 Confirmation or anomaly report response

The header contains the standard fields of the https protocol.
The body contains the confirmation report document (4.4 Confirmation report) or the anomaly report document (4.3 Anomaly report), depending on the request.

5.2.3 Imbalance status request

Sending an imbalance status request is a request that retrieves a publication report (4.5 Publication report) in response.

The request type is GET.

The format of the request URL is as follows:
Https://[…]/<request type>/<EIC of the sender BRP>/<delivery date>/<resolution>/<process.classificationType>/?type=<businessType>
Where:

- <request type> is the type of document wanted in return (publication).
- <EIC of sender BRP> is the EIC X code of the BRP sending the file.
- <delivery date> is the delivery date of for which the request is made, in the date format YYYYMMDD.
- <resolution> is the resolution that the BRP wishes to retrieve:
  - PT30M: in intervals of 30 minutes
  - P1D: total for the day.
- <process.classificationType> is the type of document wanted in return:
  - A01 for the detail (a record of sales and a record of purchases)
  - A02 for the summary (a single sales-purchases assessment record)
- <businessType> is the business type. This field is optional. If it is absent, the application returns all business types. For example:
- Nothing or "?type=all": returns all business types
  - "?type=A03" returns the Interco business type (the same for all the other types: ZX1, ZX2, ZX3, ZX4, ZX5, ZX6, A15, ZX7, A20)
  - "?type=dec" returns the business types:
    - SPOT EPEX: ZX1
    - SPOT NORDPOOL: ZX2

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- Futures: ZX3
- INFRA EPEX: ZX4
- INFRA NORDPOOL: ZX5
- Interco: A03
- NEB: ZX6
- Losses: A15
- ARENH: ZX7
- Declarative assessment: A20 (Imbalance volume)

Example of a status request URL:
https://[...]/publication/10X0123456789012/20191015/P1D/A02/?type=all

5.2.4 Publication report response

The header contains the standard fields of the https protocol.
The body contains the publication report document (4.5 Publication report).

6. Description of the HMIs

The content of the HMIs and the HMI user guide will be defined and distributed at a later date.

7. NEB unavailability

7.1 Error message

Error messages in the event of unavailability of the application will be defined and distributed at a later date.

7.2 NEB downgraded mode

Downgraded mode refers to situations where the IS is unable to carry out its functions. If the normal NEB operation is hindered by a problem linked to RTE's information systems, RTE announces a switch to downgraded mode and then a return to normal mode once the problem has been resolved.
That notification is sent to the BRPs (to their e-mail address) in a standard email:

Subject: RTE – NEB: Switch to downgraded mode

Dear customer,

Following a technical problem in the NEB application, please send us your PEBs at the following address: RTE-CNES-RESCUEBOX@RTE-FRANCE.COM.

We will keep you advised of developments as quickly as possible.

RTE will not be able to provide you with matching information by telephone. You may request that information at a later date.

Please excuse us for the inconvenience.

Sincerely,

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While downgraded mode is in effect, the BRP ceases to use access to the standard information system. RTE will make every effort to integrate the NEBs received during the period of downgraded mode operation, or ex post, without any additional action on the part of the balance responsible entities.

END OF DOCUMENT

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