**PEB**

**IT Rules**

60    Pages

Abstract:

This document describes the IT rules for the PEB (Block Exchange Programming) application.
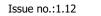
## CHANGE HISTORY

| Change history | | |
|---|---|---|
| 09/2016 | V1.5 | Draft version taking into consideration comments made by people involved in July 2016 |
| 03/07/2017 | V1.6 | Version updated for the start of tests with those involved<br>Error codes updated<br>PEB re-declaration procedures updated |
| 06/09/2017 | V1.7 | Update of the URL and codes for the publication report<br>Update of the size restrictions of the mRID of the Time Series<br>Update of the fields in_MarketParticipant.mRID for the BRP-Site exchanges<br>Point instead of comma for decimal values |
| 16/02/2018 | V1.8 | Update of the deadline for receipt from the counterpart<br>Use reason code A88 instead of A01 in the confirmation report (class Confirmed_TimeSeries)<br>Filter the PEB with a total exchange equal to zero in the ANO report<br>Note the invalid counterpart in the Acknowledgement<br>Limit the value of the field Quantity in the schedule document to 2 digits after the decimal point<br>Change the coding scheme of the RPD site in the CNF and ANO report. The coding scheme should not be equal to NFR<br>Delete the business type Z46 in the list of business types in Publication report |
| 20/07/2018 | V1.9 | Update to reason codes and reason texts |
| 04/05/2020 | V1.10 | Update to RTE services portal's URL |
| 26/08/2020 | V1.11 | Update the V1.14 version of PEB : docking at OCAPPI<br>Update to Business Type code to publication report for the interconnections : A05 code.<br>Taking into account the COYOTE requirement: breakdown of the SyntheseBJ calculation for Z44 (BRP, site on the transmission network, site on the distribution network) |
| 14/06/2023 | V1.12 | In PEB, Removal of reporting data and their associate balance : |

| | | |
|---|---|---|
| | | SPOT EPEX (code externe Z39) |
| | | SPOT NORDPOOL (code externe Z40) |
| | | Futures (code externe Z43) |
| | | INFRA EPEX (code externe Z41) |
| | | INFRA NORDPOOL (code externe Z42) |
| | | Interco (code externe A05) |
| | | ARENH (code externe Z45) |
| | | PERTES (code externe A15) |
| | | Financial protection check VEJ (code externe A24) |
| | | Previsionnal financial protection check VEJ PREV (external code Z49) |
| | | Declarative assessment (code externe A20) |
| | | |
| | | Taking into account the switch to 15-minute steps |
| 08/11/2023 | V1.13 | Update of the aim date for the Switch Date to 15-minute steps |

# CONTENTS

# 1. Introduction

The block exchange service allows a balance responsible party (BRP) to exchange energy blocks with other BRPs and/or electricity suppliers or consumption sites outside its balance perimeter, via arrangements concluded by mutual agreement.

Block exchange programmes notified and accepted by RTE are accounted for when calculating the concerned BRPs' imbalance.

## 1.1 Purpose of the document

This document is intended for users of the Block Exchange Programming (PEB) application. This system is implemented so that RTE receives all the block exchange programmes on behalf of BRPs. It is therefore intended for all BRPs wanting to carry out energy exchanges by mutual agreement.

This document is an integral part of the IT Rules and allows:
- the transmission process for block exchange programmes to be defined;
- the technical procedures for use of the PEB application to be presented.

## 1.2 Reference documents

The table below lists the reference documents cited in this document:

| No. | Document title | Source |
|-----|----------------|--------|
| [1] | IS general appendix | https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html |
| [2] | PKI Software Certificate User Manual | https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html |
| [3] | PEB HMI user guide | https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html |
| [4] | PEB API user guide | https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html |
| [5] | Rules | https://www.services-rte.com/files/live/sites/services-rte/files/documentsLibrary/2022-09-01_RULES_MA-RE_SECTION_2_A-D_4200_en |

Refer to this document in case of contradiction with another reference document.

## 1.3 Changes to the technical specifications

Each of the technical specifications in this document may be revised on the initiative of RTE. Unless otherwise stated with regard to deadlines, such revisions will be Notified to Users at least six (6) months prior to their operational introduction.

# 2. Access to RTE's IT

The conditions for access to the RTE IT are set out in the RTE rules for access to the information system and use of applications [1] (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html )

## 2.1 PEB application

Requests for access to generic applications (PEB for example) are made using a form **[2]**. (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ).

## 2.2 Prerequisites

To access the PEB application, BRPs must:
- Have a valid PKI certificate for the PEB application;
- Have a currently valid BRP participation agreement.

# 3. Procedures for interfacing with the PEB application

There are two ways in which a BRP can interface with the PEB application, namely:

*A human interface called the "HMI":*

This interface may be used by all BRPs.

Technically, the interface is the access to an RTE web site. The BRP can carry out the following operations:
- load a document containing its block exchange programmes (schedule document);
- enter one or more block exchange programmes;
- consult the status of block exchange programmes sent to RTE;
- transmit status requests to RTE;
- consult the list of current BRP-Site NEB contracts;
- consult the history of messages exchanged with RTE.

The operation of the HMI interface is presented in the PEB HMI user guide available on the RTE services portal **[3]** (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ).

*A "Machine to Machine" (M2M) interface:*

This interface may be used by all BRPs.

Technically, the interface comprises:
- a service allowing BRPs to send a document containing block exchange programmes (schedule document);
- a service allowing the status of block exchange programmes sent to RTE to be consulted.

Operation of the M2M interface is presented in the PEB API implementation guide available on the RTE services portal **[4]** (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ).

# 4. PEB declaration process

In the rest of this document, we will designate Switch Date, the date where we will switch the PEB in 15 minutes steps

The aim date for the Switch Date for PEB data is June 5, 2024.

In line with the rules on the BRP system [5], BRPs can declare their block exchange programmes (PEB), concluded by mutual agreement, to RTE:
- either between D-30 and strictly not later than 4.30pm on D-1 for a delivery on day D. This is referred to as the day ahead (DA) process.
- or from 4:30pm on D-1 and until the end of D-day at 11:30pm for a delivery on D-day later than the next half-hour following the time of receipt of the PEB. It is the intra-day (ID) process, if the delivery day D is strictly lower to the switch date
- or from 4:30pm on D-1 and until the end of D-day at 11:45pm for a delivery on D-day later than the next quarter-hour following the time of receipt of the PEB. It is the intra-day (ID) process, if the delivery day D is greater or equal to the Switch Date

-

For the delivery day D strictly lower the switch date :

| DA Process (J-1) | | | |
|---|---|---|---|
| Opening period for PEB | | Sending date | Declaration period |
| From 30 days before D to D-1 at 16:30 | | 16:30 | 00:00-24:00 (*) (**) |
| ID Process (IJ) | | | |
| From | To | Sending date | Declaration period |
| D-1 at 16:30 | D at 00:00 | Along with the matchings | 00:00-24:00 (*) (**) |
| 00:00 | 00:30 | | 00:30-24:00 (*) (**) |
| 00:30 | 01:00 | | 01:00-24:00 (*) (**) |
| 01:00 | 01:30 | | 01:30-24:00 (*) (**) |
| 01:30 | 02:00 | | 02:00-24:00 (*) (**) |
| 02:00 | 02:30 | | 02:30-24:00 (*) (**) |
| 02:30 | 03:00 | | 03:00-24:00 |
| 03:00 | 03:30 | | 03:30-24:00 |
| 03:30 | 04:00 | | 04:00-24:00 |
| 04:00 | 04:30 | | 04:30-24:00 |
| 04:30 | 05:00 | | 05:00-24:00 |
| 05:00 | 05:30 | | 05:30-24:00 |
| 05:30 | 06:00 | | 06:00-24:00 |
| 06:00 | 06:30 | | 06:30-24:00 |
| 06:30 | 07:00 | | 07:00-24:00 |
| 07:00 | 07:30 | | 07:30-24:00 |
| 07:30 | 08:00 | | 08:00-24:00 |
| 08:00 | 08:30 | | 08:30-24:00 |
| 08:30 | 09:00 | | 09:00-24:00 |
| 09:00 | 09:30 | | 09:30-24:00 |
| 09:30 | 10:00 | | 10:00-24:00 |
| 10:00 | 10:30 | | 10:30-24:00 |

| | | | |
|---|---|---|---|
| 10:30 | 11:00 | | 11:00-24:00 |
| 11:00 | 11:30 | | 11:30-24:00 |
| 11:30 | 12:00 | | 12:00-24:00 |
| 12:00 | 12:30 | | 12:30-24:00 |
| 12:30 | 13:00 | | 13:00-24:00 |
| 13:00 | 13:30 | | 13:30-24:00 |
| 13:30 | 14:00 | | 14:00-24:00 |
| 14:00 | 14:30 | | 14:30-24:00 |
| 14:30 | 15:00 | | 15:00-24:00 |
| 15:00 | 15:30 | | 15:30-24:00 |
| 15:30 | 16:00 | | 16:00-24:00 |
| 16:00 | 16:30 | | 16:30-24:00 |
| 16:30 | 17:00 | | 17:00-24:00 |
| 17:00 | 17:30 | | 17:30-24:00 |
| 17:30 | 18:00 | | 18:00-24:00 |
| 18:00 | 18:30 | | 18:30-24:00 |
| 18:30 | 19:00 | | 19:00-24:00 |
| 19:00 | 19:30 | | 19:30-24:00 |
| 19:30 | 20:00 | | 20:00-24:00 |
| 20:00 | 20:30 | | 20:30-24:00 |
| 20:30 | 21:00 | | 21:00-24:00 |
| 21:00 | 21:30 | | 21:30-24:00 |
| 21:30 | 22:00 | | 22:00-24:00 |
| 22:00 | 22:30 | | 22:30-24:00 |
| 22:30 | 23:00 | | 23:00-24:00 |
| 23:00 | 23:30 | | 23:30-24:00 |

(*) Day of the time change from winter to summer (23 hour day): The step of 03h00 doesn't exist. For the DA process and for the ID process until 02h00, the declaration period will not contain the hour from 02h00 to 03h00. Henceforth, the declaration period at 02h00 will be from 03h00 to 24h00.

(**) Day of the time change from summer to winter (25 hour day): For the DA process and for the ID process until 02h30, the declaration period will have an extra hour from 02bish00 to 03h00.

For the delivery day D strictly equal or greater the switch date :

| DA Process (J-1) | | |
|---|---|---|
| Opening period for PEB | Sending date | Declaration period |
| De 30 jours avant J jusqu'à J-1 16:30 | 16:30 | 00:00-24:00 (¹) (²) |
| ID Process (IJ) | | |
| From | To | Sending Date | Declaration period |
| D-1 at 16:30 | D at 00:00 | Along with the matchings | 00:00-24:00 (¹) (²) |
| 00:00 | 00:15 | | 00:15-24:00 (¹) (²) |
| 00:15 | 00:30 | | 00:30-24:00 (¹) (²) |

PEB IT Rules

| | | | |
|---|---|---|---|
| 00:30 | 00:45 | | 00:45-24:00 ($^1$) ($^2$) |
| 00:45 | 01:00 | | 01:00-24:00 ($^1$) ($^2$) |
| 01:00 | 01:15 | | 01:15-24:00 ($^1$) ($^2$) |
| 01:15 | 01:30 | | 01:30-24:00 ($^1$) ($^2$) |
| 01:30 | 01:45 | | 01:45-24:00 ($^1$) ($^2$) |
| 01:45 | 02:00 | | 02:00-24:00 ($^1$) ($^2$) |
| 02:00 | 02:15 | | 02:15-24:00 ($^1$) ($^2$) |
| 02:15 | 02:30 | | 02:30-24:00 ($^1$) ($^2$) |
| 02:30 | 02:45 | | 02:45-24:00 ($^1$) ($^2$) |
| 02:45 | 03:00 | | 03:00-24:00 |
| 03:00 | 03:15 | | 03:15-24:00 |
| 03:15 | 03:30 | | 03:30-24:00 |
| 03:30 | 03:45 | | 03:45-24:00 |
| 03:45 | 04:00 | | 04:00-24:00 |
| 04:00 | 04:15 | | 04:15-24:00 |
| 04:15 | 04:30 | | 04:30-24:00 |
| 04:30 | 04:45 | | 04:45-24:00 |
| 04:45 | 05:00 | | 05:00-24:00 |
| 05:00 | 05:15 | | 05:15-24:00 |
| 05:15 | 05:30 | | 05:30-24:00 |
| 05:30 | 05:45 | | 05:45-24:00 |
| 05:45 | 06:00 | | 06:00-24:00 |
| 06:00 | 06:15 | | 06:15-24:00 |
| 06:15 | 06:30 | | 06:30-24:00 |
| 06:30 | 06:45 | | 06:45-24:00 |
| 06:45 | 07:00 | | 07:00-24:00 |
| 07:00 | 07:15 | | 07:15-24:00 |
| 07:15 | 07:30 | | 07:30-24:00 |
| 07:30 | 07:45 | | 07:45-24:00 |
| 07:45 | 08:00 | | 08:00-24:00 |
| 08:00 | 08:15 | | 08:15-24:00 |
| 08:15 | 08:30 | | 08:30-24:00 |
| 08:30 | 08:45 | | 08:45-24:00 |
| 08:45 | 09:00 | | 09:00-24:00 |
| 09:00 | 09:15 | | 09:15-24:00 |
| 09:15 | 09:30 | | 09:30-24:00 |
| 09:30 | 09:45 | | 09:45-24:00 |
| 09:45 | 10:00 | | 10:00-24:00 |
| 10:00 | 10:15 | | 10:15-24:00 |
| 10:15 | 10:30 | | 10:30-24:00 |
| 10:30 | 10:45 | | 10:45-24:00 |
| 10:45 | 11:00 | | 11:00-24:00 |
| 11:00 | 11:15 | | 11:15-24:00 |

PEB IT Rules

| | | | |
|---|---|---|---|
| 11:15 | 11:30 | | 11:30-24:00 |
| 11:30 | 11:45 | | 11:45-24:00 |
| 11:45 | 12:00 | | 12:00-24:00 |
| 12:00 | 12:15 | | 12:15-24:00 |
| 12:15 | 12:30 | | 12:30-24:00 |
| 12:30 | 12:45 | | 12:45-24:00 |
| 12:45 | 13:00 | | 13:00-24:00 |
| 13:00 | 13:15 | | 13:15-24:00 |
| 13:15 | 13:30 | | 13:30-24:00 |
| 13:30 | 13:45 | | 13:45-24:00 |
| 13:45 | 14:00 | | 14:00-24:00 |
| 14:00 | 14:15 | | 14:15-24:00 |
| 14:15 | 14:30 | | 14:30-24:00 |
| 14:30 | 14:45 | | 14:45-24:00 |
| 14:45 | 15:00 | | 15:00-24:00 |
| 15:00 | 15:15 | | 15:15-24:00 |
| 15:15 | 15:30 | | 15:30-24:00 |
| 15:30 | 15:45 | | 15:45-24:00 |
| 15:45 | 16:00 | | 16:00-24:00 |
| 16:00 | 16:15 | | 16:15-24:00 |
| 16:15 | 16:30 | | 16:30-24:00 |
| 16:30 | 16:45 | | 16:45-24:00 |
| 16:45 | 17:00 | | 17:00-24:00 |
| 17:00 | 17:15 | | 17:15-24:00 |
| 17:15 | 17:30 | | 17:30-24:00 |
| 17:30 | 17:45 | | 17:45-24:00 |
| 17:45 | 18:00 | | 18:00-24:00 |
| 18:00 | 18:15 | | 18:15-24:00 |
| 18:15 | 18:30 | | 18:30-24:00 |
| 18:30 | 18:45 | | 18:45-24:00 |
| 18:45 | 19:00 | | 19:00-24:00 |
| 19:00 | 19:15 | | 19:15-24:00 |
| 19:15 | 19:30 | | 19:30-24:00 |
| 19:30 | 19:45 | | 19:45-24:00 |
| 19:45 | 20:00 | | 20:00-24:00 |
| 20:00 | 20:15 | | 20:15-24:00 |
| 20:15 | 20:30 | | 20:30-24:00 |
| 20:30 | 20:45 | | 20:45-24:00 |
| 20:45 | 21:00 | | 21:00-24:00 |
| 21:00 | 21:15 | | 21:15-24:00 |
| 21:15 | 21:30 | | 21:30-24:00 |
| 21:30 | 21:45 | | 21:45-24:00 |
| 21:45 | 22:00 | | 22:00-24:00 |

| | | | |
|---|---|---|---|
| 22:00 | 22:15 | | 22:15-24:00 |
| 22:15 | 22:30 | | 22:30-24:00 |
| 22:30 | 22:45 | | 22:45-24:00 |
| 22:45 | 23:00 | | 23:00-24:00 |
| 23:00 | 23:15 | | 23:15-24:00 |
| 23:15 | 23:30 | | 23:30-24:00 |
| 23:30 | 23:45 | | 23:45-24:00 |

(1) Day of the time change from winter to summer (23 hour day): The step of 03h00 doesn't exist. For the DA process and for the ID process until 02h00, the declaration period will not contain the hour from 02h00 to 03h00. Henceforth, the declaration period at 02h00 will be from 03h00 to 24h00.

(2) Day of the time change from summer to winter (25 hour day): For the DA process and for the ID process until 02h30, the declaration period will have an extra hour from 02bish00 to 03h00.

Verification of the consistency of the programs, referred to as "matching", is done continuously from D-30 strictly up to 4.30pm on D-1 for block exchange programs in the day ahead (DA) process.

For block exchange programs in the intra-day (ID) process, matching is done continuously from 4.30pm on D-1 strictly up to 11.30pm on the day of the exchange (until 11:45pm in 15min intervals).

The validation of PEB is realized from D-1 2:00pm until D-1 4:30pm excluded, for DA process PEB.

The validation of PEB is realized continuously from D-1 4:30pm until 11:30m on ID (until 11:45pm in 15 min intervals), for the ID process pour les PEB.
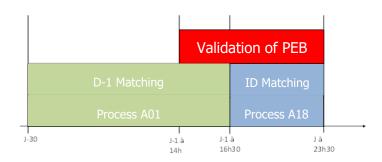
This section defines the process for implementing block exchanges for the day ahead and intra-day processes.

## 4.1 Configuring PEB processes

Process A01 (Day ahead) is used for D-1 block exchanges.

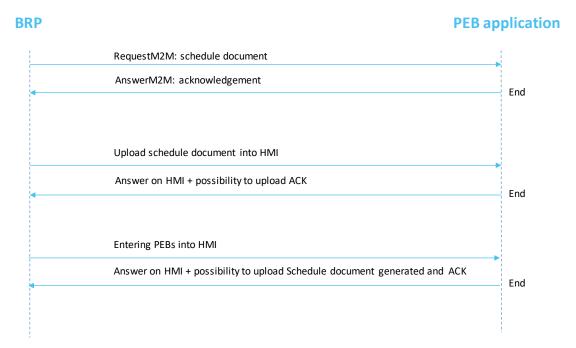Process A18 (intra-day total) is used for intra-day block exchanges.



## 4.2 Means of transmission of data between the BRPs and RTE

In accordance with the procedures set out in paragraph 3, the BRP can send block exchange programmes in three ways:

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



## 4.3 Process for sending a schedule document

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

The schedule document must contain all the BRP's PEBs (BRP-BRP and BRP-Site) for the delivery date in question and must comply with the file format described below.
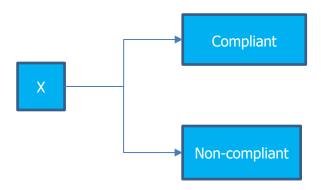
A BRP's PEB is characterised by:

- the selling BRP's EIC code in X (or Y),

- the purchasing BRP's EIC code in X (or Y) or the EIC Z code for the public transmission grid consumption site or the PRM code for the consumption site on the public distribution grid,
- a PEB type (BRP-BRP or BRP-Site),
- the delivery day,
- the block exchange record :
  - o <u>For a delivery day D strictly lower to the switch date,</u> chronicles contains 48 power values for a normal day, 46 power values for a winter-to-summer time change day or 50 power values for a summer-to-winter time change day;
  - o <u>For a delivery day D equal or greater to the switch date,</u> chronicles contains 96 power values for a normal day, 92 power values for a winter-to-summer time change day or 100 power values for a summer-to-winter time change day.

A block exchange record contains only positive values rounded off to the nearest $1/100^{th}$ of a megawatt or null values. It must cover every step of the delivery day, including if it is sent intra-day and must not modify the values in the intervals preceding the time the schedule document is received; only the intervals after the date/time of receipt are taken into account by RTE for the matching.

On receipt of a schedule document, RTE sends an acknowledgement file (ACK) indicating whether the schedule document complies with the expected format or not (OK or REJ respectively). In the event of a rejection, RTE will state the reason.



## 4.4  PEB matching process: MATCHED PEB creation

### 4.4.1  Principles

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

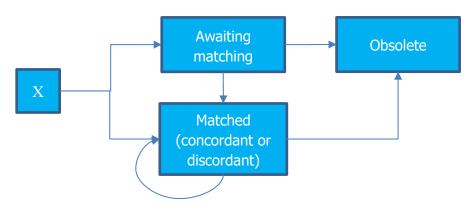Then, for each BRP-BRP PEB where the version number has increased:
- if RTE has already received an identical PEB (same seller BRP/purchaser BRP pair, same delivery day, same type of process) from the counterpart BRP, RTE matches the PEBs. If all the listed conditions are met, RTE switches the status of the PEB to "matched" and retains:

o   for the day ahead process, a record in which each value is equal to the minimum of the two PEBs compared for the day ahead process.

o   for the intra-day process, a record in which each value equals the compared value if it is concordant or the last validated value if it is not concordant

- if RTE has not received a PEB from the counterpart, the PEB status is switched to "awaiting matching".

The PEBs are switched to "matched" status when the PEB is received from the counterpart BRP.

If the two compared PEBs show at least one non-matching value, then the matched PEB is discordant, otherwise it is concordant.



When a new PEB is saved, its earlier version changes to obsolete, if it is not involved in a validated MATCHED PEB.

When a new MATCHED PEB is created, if a "pending" earlier version of this MATCHED PEB exists, then it changes to obsolete.

Therefore, in the rest of the document we will distinguish between:
- PEB: PEB for which no counterpart's PEB has been received and which may have the following statuses: Waiting for matching, waiting for nomination or obsolete.
- MATCHED PEB: PEB for which the two counterparties have already made a declaration and which may have the following statuses: Pending, Validated, or Obsolete.
  MATCHED PEB does also have a comparison status regarding the concordance of values declared by the two parties: Concordant, Discordant, or Manual values.
  A BRP-Site MATCHED PEB is automatically "matched" status with concordant values

### 4.4.2  Deadline for receipt from the counterpart

When a BRP-BRP PEB is recorded with "Waiting for matching" status, RTE determines a time limit for receiving the PEB from the counterpart as follows:
- if the PEB is received for D-1 process, the deadline for receipt from the counterpart is 16:30 hr on D-1 excluded (strictly before 4:30pm).
- if the PEB is received for ID process (between 4:30pm on day D-1 and 11:30pm on day D in 30 minutes steps [or 11:45pm excluded on day D in 15 minutes intervals]), the time limit for receipt from the counterpart is the time corresponding to the first position in the future with a value different from the value validated by RTE for that

block exchange (same seller/purchaser BRP, same delivery date). If no value validated by RTE (first version of the PEB), the time limit for receiving the PEB from the counterpart is the time corresponding to the first position in the future different from 0.

- if the PEB received of ID process, contains only values identical to the one validated by RTE for that block exchange, the deadline for receipt from the counterpart is set at 11:30pm on day D in 30 minutes steps (at 11:45pm on day D in 15 minutes intervals).
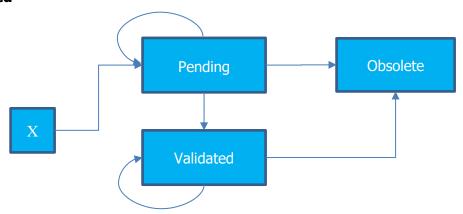
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If RTE has not received a PEB from the counterpart within the time limit advised, RTE changes the PEB's status to "Obsolete". No MATCHED PEB is created or recorded by RTE.

Example: If the first interval with a value that is not 0 or the last MATCHED PEB is 8:30 on day D, then the deadline is 8:30 on day D.

## 4.5  Validation of MATCHED PEB

### 4.5.1  Principles

The process of validating a MATCHED PEB involves changing its status from "Pending" to **"Validated"**



For a MATCHED PEB, the change to the status "Validated" implies the change to the status "Obsolete" of the precedent validated version of this MATCHED PEB.

### 4.5.2  Time period for validation

The validation period depends on the process DA or ID :
- for block exchange programmes in the day ahead process, the "validation process" is done from 2.00pm on D-1 strictly up to 4.30pm on D-1.
- for block exchange programmes in the intra-day process, the "validation process" is done continuously from 4.30pm on D-1 up to 11.30pm on the day of the exchange in 30 minutes steps (or 11:45pm in 15 minutes intervals).

The "validation process" runs:

- every 30 minutes from 2.00pm on D-1 in 30 minutes steps (or every 15 minutes in 15 minutes intervals) ;
- after each matching.

The "validation process" is carried out:

- in the chronological order that MATCHED PEBs were created and the PEB was received from the counterpart.
- for each schedule document received, after all the PEBs in the document have been matched, the "validation process" is carried out with priority given to PEBs "purchasing" and then the PEBs "selling" in the chronological order that the PEB was received from the counterpart.

The time limit for "validation process" is defined:
- for a MATCHED PEB in D-1 process: D-1 4:30 pm
- for a MATCHED PEB in ID process: the time corresponding to the first position in the future with a value different from the value validated by RTE for that block exchange (same seller/purchaser BRP, same type of process, same delivery date). If no value validated by RTE (first version of the MATCHED PEB), the time limit for "validation process" is the time corresponding to the first position in the future different from 0.

# 5. Calculating balances

A daily balance is an energy, defined in MWh, corresponding for a BRP and a given delivery date to:
- the sum of purchases (daily balance with "PURCHASING" direction) or
- the sum of sales (daily balance with "SALES" direction) or
- the sum of purchases subtracted from sales (daily balance with "BALANCE" direction).

PEB application provides access to the following **primary daily balances**:
- PEB *(external code Z44)*: corresponding to the validated MATCHED PEB : in this case, the calculation is a little different, i.e. all the validated PEB for that date with the distinction for BRPs, sites on the transmission network and sites on the distribution network that are sellers are taken into account, hence the 3 lines :
    o One line with type Z44_1 / VENTE for the total sales with BRPs ;
    o One line with type Z44_2 / VENTE for total sales with sites on the transmission network ;
    o One line with type Z44_3 / VENTE for total sales with sites on the distribution network
- PEB PREV *(external code Z48):* corresponding to the MATCHED PEB (validated or pending). The calculation of PEB PREV daily balance is identical to the calculation of PEB balance apart from the fact pending MATCHED PEB are used if existing. It gives a view of PEB balance with the hypothesis all MATCHED PEB will be validated.

# 6. Document format

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

- Schedule document based on the Schedule Document template
- Acknowledgement of receipt file based on the ENTSO-E Acknowledgement Document template
- Confirmation report file based on the ENTSO-E Scheduling System Confirmation Report Document template.
- Anomaly Report File based on the ENTSO-E Scheduling System Anomaly Report Document template.
- Publication Report File based on the ENTSO-E Schedule Document template.

All the files are in XML format.

The XSDs for these files are supplied by RTE on the RTE services portal (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ), at the bottom of the page on the "XSD formats" link.

## 6.1 Schedule document

The schedule document's name format is as follows:

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

Where:

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

File name example:

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:

PEB_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

The XSDs for these files are supplied by RTE on the RTE services portal (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ), at the bottom of the page on the "XSD" formats link.
**These XSD files, and not those available on the ENTSO-E website, must be used to generate the schedule document.**

The schema structure described by 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 XSD urn-entsoe.
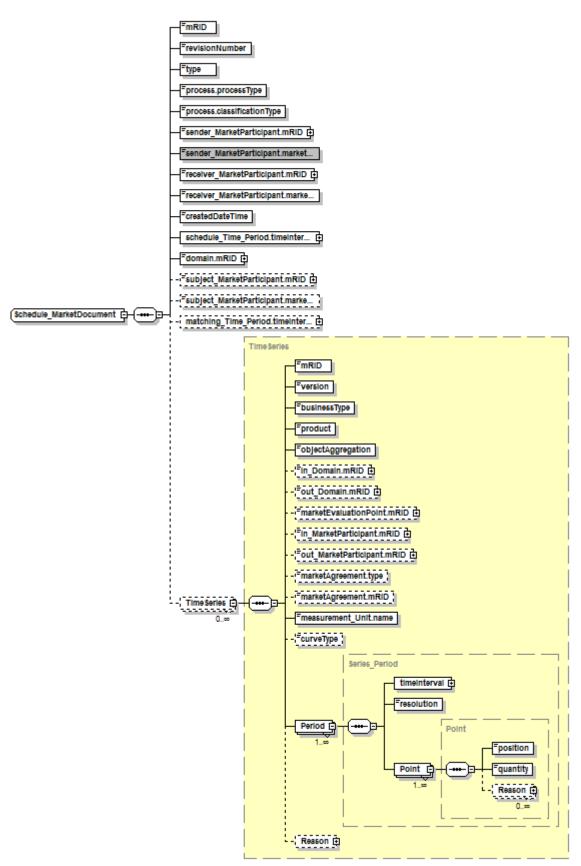The encoding is UTF-8.

The acknowledgement document's information template is as follows:

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).

The value of the schedule document mRID is therefore unique for an issuing BRP and delivery date, whatever the process.

Another issuing BRP must not have a schedule document with the same mRID value. Also, to prevent different BRPs from using the same mRID, it is suggested that it is made up as follows:

<BRP EIC code>-<delivery date in the format YYYYMMDD>-PEB

Example: 10X0123456789012-20191001-PEB

This document must contain all the PEBs for the delivery date in question.

A BRP-BRP PEB is identified by the seller BRP/purchaser BRP pair (via the out_MarketParticipant.mRID and in_MarketParticipant.mRID fields).

A BRP-site PEB is identified by the seller BRP/purchaser site pair (via the out_MarketParticipant.mRID and marketEvaluationPoint.mRID fields).

For a given delivery date and pair (seller 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 schedule document mRID field must be identical in all the files.

Similarly, for each PEB with a pair (seller BRP, buyer BRP), the mRID field for the time series class for this pair must be identical in all the files. For an issuing BRP and a given delivery date, if the BRP sends several TimeSeries with different counterpart BRPs as counterparts or another seller/buyer role, the schedule document mRID remains identical but the mRID for the TimeSeries changes for each pair (seller BRP, buyer BRP).

The revisionNumber fields on the schedule document must be increased every time an update of the Schedule Document is sent.

The version fields for each PEB must increase for every update of the PEB.

In this way, the PEB version fields are never higher than the revisionNumber field.

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

6.1.1  Schedule_MarketDocument class:

| FIELDS | DESCRIPTIONS |
| --- | --- |
| mRID | Unique document ID.<br>To avoid different BRPs using the same mRID, it is recommended that the mRID is made up as follows:<br><BRP EIC code>-<delivery date in the format YYYYMMDD>-PEB<br>Example: 10X0123456789012-20191001-PEB<br>Size: 35 alphanumeric characters maximum |

| 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 PEB application. The first sending does not need to be version 1. The rejection of a document involves incrementing the version number if the BRP sends a new version of his/her schedule document. Size: 3 numeric characters maximum |
|---|---|
| type | This field must always contain the value "A01" (Balance responsible schedule) Size: 3 alphanumeric characters maximum |
| process.processType | This field must contain the value "A01" (day ahead) for nominations before D-1 at 4:30pm or "A18" (intra-day total) for nominations between 4:30pm on D-1 and 11.30pm for the intra-day process (11:45 pm in 15 minutes intervals). Size: 3 alphanumeric characters maximum |
| process.classification Type | This field must always contain the value "A01" (Detail Type) Size: 3 alphanumeric characters maximum |
| sender_MarketPartici pant.mRID | The value in this tag must contain the EIC code in X (or Y) of the BRP who sent the request containing the schedule document. The coding scheme is "A01" Example: <sender_MarketParticipant.mRID codingScheme="A01">10X0123456789012</sender_MarketPartici pant.mRID> Size: 16 alphanumeric characters for the EIC code Size: 3 alphanumeric characters for the codingScheme |
| sender_MarketPartici pant.marketRole.type | This field must always contain the value "A08" (Balance responsible party) Size: 3 alphanumeric characters maximum |
| receiver_MarketPartic ipant.mRID | RTE EIC code. 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 code Size: 3 alphanumeric characters for the codingScheme |
| receiver_MarketPartic ipant.marketRole.typ e | This field must always contain the value "A04" (System Operator) Size: 3 alphanumeric characters maximum |
| createdDateTime | Date and time the schedule document was generated, expressed in UTC time, in the format YYYY-MM-DDTHH:MM:SSZ |

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

### 6.1.1.1 TimeSeries class:

| FIELDS | DESCRIPTIONS |
|---|---|
| mRID | Unique ID for the TimeSeries in the document.<br><br>For an mRID for the given schedule document, the TimeSeries mRID is unique for each PEB.<br>When a new version of a PEB is sent, the mRID must not change.<br><br>Size: **9 numeric characters maximum.** |
| version | TimeSeries version number (value between 1 and 999).<br>That number must be no higher than the schedule document's version number (revisionNumber).<br>The version numbers for the time series which will be updated must be increased.<br>Size: 3 numeric characters maximum |
| businessType | This field always contains the value: "A02" (Internal trade)<br>Size: 3 alphanumeric characters maximum |
| product | This field must always contain the value "**8716867000016**" (Active Power)<br>Size: 13 numeric characters maximum |
| objectAggregation | This field is used to indicate whether the PEB type is BRP-BRP or BRP-Site.<br>This field can contain the following values:<br>• "A03" (Party) for a BRP-BRP PEB<br>• "A02" (Metering Point) for a BRP-Site PEB<br>Size: 3 alphanumeric characters maximum |
| in_Domain.mRID | This field should contain the value "10YFR-RTE------C" and the coding scheme "A01".<br>Height: 3 alphanumeric characters maximum |
| out_Domain.mRID | This field should contain the value "10YFR-RTE------C" and the coding scheme "A01".<br>Height: 3 alphanumeric characters maximum |
| marketEvaluationPoint.mRID | This field must contain:<br>-        The EIC Z code for the site measuring point in the case of a public electricity transmission grid site (codingScheme = A01)<br>-        The PRM code for the site measuring point for a public distribution grid point (codingScheme = NFR)<br>Height: 3 alphanumeric characters maximum |

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| in_MarketParticipant .mRID | The value in this tag must contain the EIC code in X (or Y) of the purchaser BRP accompanied by the coding scheme, which is always "A01". This attribute is not present in the BRP-Site exchanges.<br><br>Example:<br><in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
|---|---|
| out_MarketParticipant.mRID | The value in this tag must contain the EIC code in X (or Y) for the seller BRP accompanied by the coding scheme, which is always "A01".<br>Example:<br><out_MarketParticipant.mRID codingScheme="A01">10X0123456789025</out_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| marketAgreement.type | Field not used: if present, it is ignored by RTE.<br>It is therefore recommended that this field is not included in the file. |
| marketAgreement.mRID | Field not used: if present, it is ignored by RTE.<br>It is therefore recommended that this field is not included in the file. |
| measurement_Unit.name | This field must always contain the value "MAW" (Megawatt)<br>Size: 3 alphanumeric characters maximum |
| curveType | Field not used: if present, it is ignored by RTE.<br>It is therefore recommended that this field is not included 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.<br>That period must be A SINGLE DAY and strictly equal the field schedule_Time_Period.timeInterval.<br>There must not be more than one timeInterval instance.<br>Dates/times are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval:<br>YYYY-MM-DDTHH:MMZ<br>Same values as for the field: schedule_Time_Period.timeInterval in the schedule document. |

| resolution | Indicates the resolution of the values. |
|---|---|
| | For the delivery D day strictly lower to the switch date, this field must always contain the value "PT30M" |
| | For the delivery D day equal or greater to the switch date, this field must always contain the value "PT15M" |

- Point class:

| FIELDS | DESCRIPTIONS |
|---|---|
| position | The position is a interval.<br>The value in this field is a positive integer.<br><br>For the delivery D day strictly lower to the switch date,<br>depending on the type day of the delivery date, the position field must have one of the following values:<br>• From 1 to 48 for a normal day<br>• From 1 to 46 for a day when clocks change from winter time to summer time (a 23-hour day)<br>• From 1 to 50 for a day when clocks change from summer time to winter time (a 25-hour day)<br>The different values in the position field are unique (no duplicates) and must follow each other in sequence (no gaps).<br>The correspondence between the position number and the half-hour interval is as follows: |

- Normal 24-hour day:

| Position | 1 | 2 | 3 | --- | --- | 47 | 48 |
|---|---|---|---|---|---|---|---|
| Interval | 00:00-00:30 | 00:30-01:00 | 01:00-01:30 | --- | --- | 23:00-23:30 | 23:30-24:00 |

- Winter time to summer time changeover day (23 hours):

| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | - | - | 45 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Interval | 00:00-00:30 | 00:30-01:00 | 01:00-01:30 | 01:30-02:00 | 03:00-03:30 | 03:30-04:00 | 04:00-04:30 | -- | -- | 23:00-23:30 | 23:30-24:00 |

- Day of the change from summer time to winter time (25 hours):

| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Interval | 00:00-00:30 | 00:30-01:00 | 01:00-01:30 | 01:30-02:00 | 02:00-02:30 | 02:30-03:00 | 02:00-02:30 | 02:30-03:00 |
| Position | 9 | 10 | --- | --- | 47 | 48 | 49 | 50 |
| Interval | 03:00-03:30 | 03:30-04:00 | --- | --- | 22:00-22:30 | 22:30-23:00 | 23:00-23:30 | 23:30-24:00 |

Positions 7 and 8 correspond to the two half-hour intervals in the additional hour arising from the time change.

<u>For the delivery D day equal or greater to the switch date,</u>
Depending on the type day of the delivery day, the position field must take values :

- From 1 to 96 for a normal day
- From 1 to 92 for a Winter to Summer time change day (23-hour day)
- From 1 to 100 for a Summer to Winter time change day (25-hour day)

The different values in the position field are unique (no duplicates) and must follow each other (no gaps).

The correspondence between the position number and the quarter-hour step is as follows :

- Normal 24-hour day:

| Position | 1 | 2 | 3 | --- | --- | 95 | 96 |
|---|---|---|---|---|---|---|---|
| Pas | 00:00-00:15 | 00:15-00:30 | 00:30-00:45 | --- | --- | 23:30-23:45 | 23:45-24:00 |

- Winter time to summer time changeover day (23 hours):

| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Pas | 00:00-00:15 | 00:15-00:30 | 00:30-00:45 | 00:45-01:00 | 01:00-01:15 | 01:15-01:30 | 01:30-01:45 | 01:45-02:00 |
| Position | 9 | 10 | --- | --- | --- | --- | 91 | 92 |
| Pas | 03:00-03:15 | 03:15-03:30 | --- | --- | --- | --- | 23:30-23:45 | 23:45-24:00 |

- Day of the change from summer time to winter time (25 hours):

| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Pas | 00:00-00:15 | 00:15-00:30 | 00:30-00:45 | 00:45-01:00 | 01:00-01:15 | 01:15-01:30 | 01:30-01:45 | 01:45-02:00 |
| Position | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Pas | 02:00-02:15 | 02:15-02:30 | 02:30-02:45 | 02:45-03:00 | 02:00-02:15 | 02:15-02:30 | 02:30-02:45 | 02:45-03:00 |
| Position | 17 | 18 | --- | --- | --- | --- | 99 | 100 |
| Pas | 03:00-03:15 | 03:15-03:30 | --- | --- | --- | --- | 23:30-23:45 | 23:45-24:00 |

Positions 13 and 16 correspond to the two quarter-hour intervals in the additional hour arising from the time change.

| quantity | Value (in megawatts) of the block exchange for a position. Each value is a number with a maximum of two digits after the decimal point, zero or higher. Example: 142.75 |
|---|---|

o   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 that Reason classes are not included in the schedule document.

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

## 6.2 Acknowledgement document

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

```
PEB_ACK_<statut>_<EIC code of the receiver>_<date/hour of generation of the
    file>.xml
```

Where:
- <status> is the acknowledgement status: "REJ" if the processed file is rejected by the PEB application, "OK" if the file is accepted by the PEB application.
- <EIC code of the receiver> is the EIC code in X (or Y) of the BRP receiving the file.
- <date/hour of generation of the file> is the date and time the file was generated in YYYYMMDDHHMMSS format.

File name example:

A BRP with the EIC code "10X0123456789012", to which RTE sends an acknowledgement generated by RTE on 12/10/2019 at 11:01:24 following the 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:

PEB_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:

PEB_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

The XSDs for these files are supplied by RTE on the RTE services portal (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ), at the bottom of the page on the "XSD formats" link.
**These XSD files and not those available on the ENTSO-E website are used to generate the acknowledgement of receipt file.**
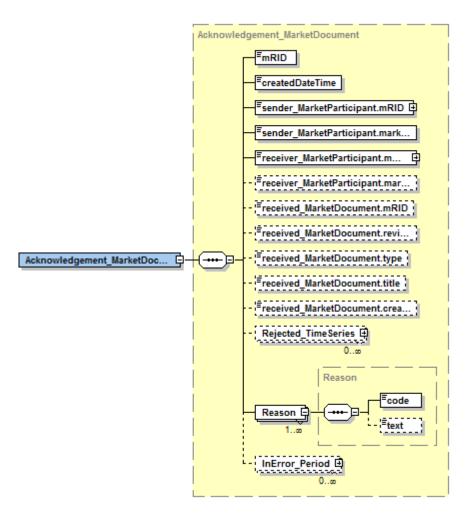The encoding is UTF-8.

The acknowledgement document information template is as follows:

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

### 6.2.1 Acknowledgement_MarketDocument class:

| FIELDS | DESCRIPTIONS |
|---|---|
| mRID | This field is the ID for the acknowledgement.<br>The value this field contains is unique for all files (acknowledgement of receipt, Anomaly report, Confirmation report, Publication report) generated by the PEB application.<br>Size: 35 alphanumeric characters maximum |
| createdDateTime | Date and time of generation of the acknowledgement file by the PEB application.<br>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"<br>Example:<br><sender_MarketParticipant.mRID   codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |

| FIELDS | DESCRIPTIONS |
|---|---|
| sender_MarketParticipant.marketRole.type | The value of this tag is always "A04" (System Operator)<br>Size: 3 alphanumeric characters maximum |
| receiver_MarketParticipant.mRID | The value in this tag must contain the EIC code in X (or Y) of the BRP that sent the request pertaining to the PEB application's acknowledgement. This is the recipient BRP of the acknowledgement.<br>The coding scheme is "A01"<br>Example:<br><receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| receiver_MarketParticipant.marketRole.type | The value in this tag is "A08" (Balance responsible party)<br>Size: 3 alphanumeric characters maximum |
| 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.<br>Size: 35 alphanumeric characters maximum |
| received_MarketDocument.revisionNumber | This tag is present in cases where the acknowledgement follows a schedule document.<br>In that case, the value in this tag is the same as that in the revisionNumber field in the schedule document for which the acknowledgement document is generated.<br>Size: 3 numeric characters maximum |
| received_MarketDocument.type | This tag is present in cases when the acknowledgement follows a schedule document.<br>In that case, the value in this tag is the same as that in the type field in the schedule document for which the acknowledgement document is generated.<br>Size: 3 alphanumeric characters maximum |
| received_MarketDocument.title | The value of this tag is the same as the file name (in the case of a file upload) for which the Acknowledgement document is generated.<br>Size: 150 alphanumeric characters maximum |
| received_MarketDocument.createdDateTime | This tag is always present and is identical to the date/time the request is received from the BRP to be converted into UTC time (format YYYY-MM-DDTHH:MM:SSZ). |

- "Reason" class fields:
  - "Code" field:
    - At least one code is required (size: 3 alphanumeric characters maximum).
    - The codes used are specified below.
  - "Text" field:

- For each code, this tag is always filled in (size: 512 alphanumeric characters maximum).
- 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* | The Schedule Document did not contain any anomalies and was integrated: the PEBs were created. |
| A02 | *Message fully rejected. Several or no xml request.* | The body of the API request contained several or no Schedule_MarketDocument class. |
| A02 | *Message fully rejected. Some fields with unexpected values.* | The file does not comply with the .XSD document described in the appendix. |
| A02 | *Message fully rejected. Some quantities with negatives values.* | The Schedule Document contains at least one exchange with at least one negative value: <TimeSeries><Period><Point><quantity>. |
| A02 | *Message fully rejected. Quantities with more than 2 decimals not authorized* | The Schedule Document contains at least one exchange with at least one value with more than 2 decimals: <br><br><TimeSeries><Period><Point><quantity>.<br><br>Example:<br><br>2564.26 => value accepted<br>2415.101 => value rejected. |
| A02 | *Message fully rejected. Incorrect value for Sender/Receiver Role or Receiver Identification.* | One of the following tags has not been correctly filled in:<br><br><sender_MarketParticipant.marketRole.type><br><br><receiver_MarketParticipant.marketRole.type><br><br>receiver_MarketParticipant.mRID |
| A02 | *Message fully rejected. Lower value of revisionNumber relative to Senders Time Series Version.* | The value of the <revisionNumber> is less than the value of the <version> tag in at least one <Timeseries> |

| Value of the code field | Value of the text field | Comments |
|---|---|---|
| A04 | *Message fully rejected. Noncompliant dates for schedule_Time_Period.timeInterval or timeInterval fields.* | The dates for the <schedule_Time_Period.timeInterval> or <TimeSeries><Period>< timeInterval> tags are not in the right format. |
| A04 | *Message fully rejected. Noncompliant dates for schedule_Time_Period.timeInterval or timeInterval fields.* | The dates for the <schedule_Time_Period.timeInterval> or <TimeSeries><Period>< timeInterval> tags are not one day apart. |
| A04 | *Message fully rejected. Noncompliant dates for schedule_Time_Period.timeInterval or timeInterval fields.* | The dates for the <schedule_Time_Period.timeInterval> and <TimeSeries><Period><timeInterval> are different. |
| A04 | *Message fully rejected. Time interval incorrect.* | The date defined in the <schedule_Time_Period.timeInterval-end> is not authorised for the <processType>. |
| A02 | *Message fully rejected. EIC code non compliant.* | The tag sender_MarketParticipant.mRID does not correspond to the balance responsible party which sent the Schedule Document. |
| A05 | *Sender without valid BRP contract.* | The BRP is not valid for the delivery date. |
| A02 | *Message fully rejected. revisionNumber value already existing higher or equal.* | The Schedule Document <revisionNumber> version is not higher than the one on the last Schedule Document received. |
| A02 | *Message fully rejected. A doc mrid already exists for the same Period time. Document mrid can not be changed.* | The Schedule Document mRID is different from the Schedule Documents already integrated without error for the delivery date. |
| A02 | *Message fully rejected. A doc mrid already exists for another Period time or another Balance Responsible Party.* | The Schedule Document mRID is already in use by another BRP and/or delivery date. |

| 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.* | There is at least one exchange in the Schedule Document for which the BRP who sends the Schedule Document is not present in one of the two tags: <in_MarketParticipant.mRID> and <out_MarketParticipant.mRID> |
| A02 | *Message fully rejected. Sender has to be seller (out_MarketParticipant.mRID) or buyer (in_MarketParticipant.mRID) within file.* | There is at least one exchange in the Schedule Document for which the BRP who sends the Schedule Document is present in the two tags <in_MarketParticipant.mRID> and <out_MarketParticipant.mRID> |
| A02 | *Message fully rejected. Presence of two or more timeseries with same seller (out_MarketParticipant.mRID) and buyer (in_MarketParticipant.mRID) not authorized within file* | There are at least two identical exchanges in the Schedule document: same <in_MarketParticipant.mRID> and same <out_MarketParticipant.mRID> |
| A02 | *Message fully rejected. Counterpart unknown or without valid BRP contract : <Code EIC>* | In the Schedule Document there is at least one exchange with a BRP which does not exist or which is not valid for the delivery date.<br><br>The < EIC code > indicated is the ID of the first invalid counterpart found. |
| A02 | *Message fully rejected. Counterpart Site unknown or without valid NEB-Site contract : <code EIC> or <code PRM>* | In the Schedule Document there is at least one exchange with a site which does not exist, which is not valid or for which there is not valid contract with the BRP for the delivery date.<br><br>The < EIC code > or < PRM code > indicated is the ID of the first invalid counterpart found. |
| A02 | *Message fully rejected. A TimeSeries mRID is not a number* | In the Schedule Document there is at least one TimeSeries which contains an mRID which is not a number. |
| A02 | *Message fully rejected. Several TimeSeries have the same mRID* | In the Schedule Document there are at least two TimeSeries which contain the same mRID. |

| Value of the code field | Value of the text field | Comments |
|---|---|---|
| A02 | *Message fully rejected. A timeseries mrid already exist for another Period time and buyer seller. Timeseries mrid must be unique for a Period time and buyer seller.* | In the Schedule Document there is at least one TimeSeries which contains an mRID which has already been used for another buyer/seller pair in a previous version of the Schedule Document. |
| A02 | *Message fully rejected. A timeseries mrid already exist for the same Period time and buyer seller. Timeseries mRID can not be changed.* | One of the exchanges in the Schedule Document has already been integrated into a previous Schedule Document with a different mRID: <TimeSeries><mRID>. |
| A02 | *Message fully rejected. TimeSeries sent previously are missing* | There are TimeSeries missing in this Schedule Document, compared to the last version of the Schedule Document sent. |
| A02 | *Message fully rejected. Position inconsistency.* | One of the Exchanges in the Schedule Document contains a different resolution from the one expected in the application: <TimeSeries><Period><resolution>. |
| A02 | *Message fully rejected. Position inconsistency.* | One of the exchanges in the Schedule Document does not contain the number of positions expected in the application according to the resolution and the type of day (with or without a time change). |
| A02 | *Message fully rejected. Position inconsistency.* | There is at least one break point in the positions of one of the exchanges in the Schedule Document. |

## 6.3 Anomaly report

The anomaly report is an xml document used to inform the BRP(s) about their unmatched PEBs or MATCHED PEBs which have not been validated.

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 anomaly report name format is as follows:

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

Where:
- <the EIC code of the recipient BRP> is the EIC code in X (or Y) 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 intra-day)
- <date/time of generation of the file > is the date and time the file was generated in YYYYMMDDHHMMSS format.

Sample file name:
For a BRP with the EIC code "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 unmatched PEBs for delivery date 12/10/2019, the name of the anomaly report is as follows:
PEB_AnomalyReport_10X0123456789012_20191012_A18_20191012000124.xml

The anomaly report uses the following XSD file:
- iec62325-451-2-anomaly_v5_1.xsd
- urn-entsoe-eu-wgedi-codelists.xsd
- urn-entsoe-eu-local-extension-types.xsd

The XSDs for these files are supplied by RTE on the RTE services portal (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html), at the bottom of the page on the "XSD formats" link.
**These XSD files (and not those available on the ENTSO-E website) are used to generate the Anomaly Report file.**
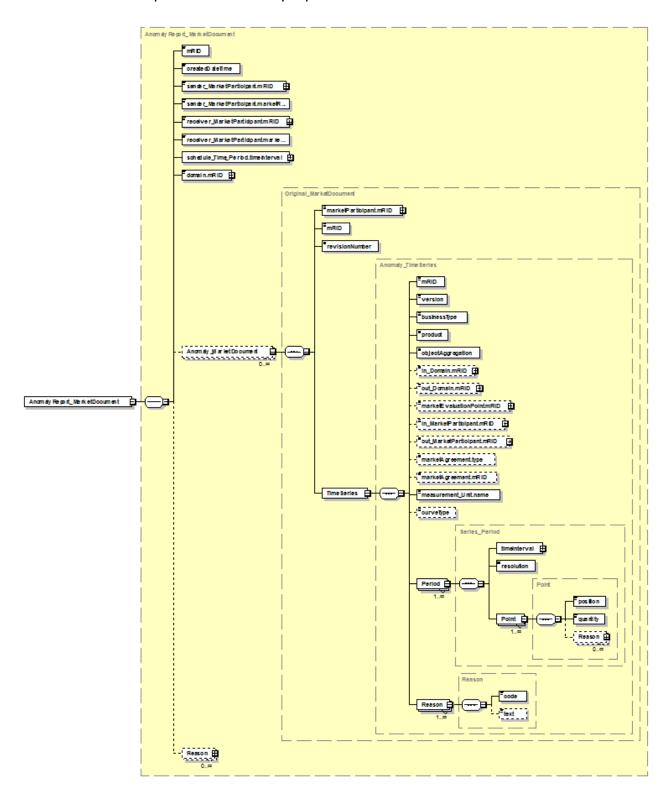The encoding is UTF-8.

The information template of the anomaly report is as follows:



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

PEB IT Rules

## 6.3.1 Anomaly-report_MarketDocument class:

| FIELDS | DESCRIPTIONS |
|---|---|
| mRID | This field is the anomaly report ID.<br>The value this field contains is unique for all files (acknowledgement of receipt, Anomaly report, Confirmation report, Publication report) generated by PEB.<br>Size: 35 alphanumeric characters maximum |
| createdDateTime | Date and time of generation of the anomaly report by the PEB application.<br>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"<br>Example:<br><sender_MarketParticipant.mRID    codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| sender_MarketParticipant.marketRole.type | The value of this tag is always "A04" (System Operator)<br>Size: 3 alphanumeric characters maximum |
| receiver_MarketParticipant.mRID | The value in this tag must contain the EIC code in X (or Y) for the BRP receiving the anomaly report generated by the PEB application.<br>The coding scheme is "A01"<br>Example:<br><receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| receiver_MarketParticipant.marketRole.type | The value in this tag is "A08" (Balance responsible party)<br>Size: 3 alphanumeric characters maximum |

PEB IT Rules

| 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.<br>The date/time must be expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ<br>The start date/time is necessarily the end date/time – 1 day.<br>If the date falls within the summer time period, the time (HH:MM) must be 22:00.<br>If the date falls within the winter time period, the time (HH:MM) must be 23:00.<br>Example taking the date of 1 October 2014:<br>&lt;schedule_Time_Period.timeInterval&gt;<br>  &lt;start&gt;2014-09-30T22:00Z&lt;/start&gt;<br>  &lt;end&gt;2014-10-01T22:00Z&lt;/end&gt;<br>&lt;/schedule_Time_Period.timeInterval&gt;<br><br>Example taking the date of 26 October 2014 (the date of the change to winter time):<br>&lt;schedule_Time_Period.timeInterval&gt;<br>  &lt;start&gt;2014-10-25T22:00Z&lt;/start&gt;<br>  &lt;end&gt;2014-10-26T23:00Z&lt;/end&gt;<br>&lt;/schedule_Time_Period.timeInterval&gt; |
| domain.mRID | This value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01".<br>Size: 18 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |

6.3.1.1 Anomaly_MarketDocument class:

| FIELDS | DESCRIPTION |
|---|---|
| marketParticipant.mRID | The value in this tag must contain the EIC code in X (or Y)for the BRP for which the PEB application generated an anomaly report. This is the BRP receiving the anomaly report.<br>The coding scheme is "A01"<br>Example:<br>&lt;marketParticipant.mRID<br>codingScheme="A01"&gt;10X0123456789012&lt;/<br>marketParticipant.mRID&gt;<br>Size: 18 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |

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

### 6.3.1.1.1 TimeSeries class:

| FIELDS | DESCRIPTION |
|---|---|
| mRID | Corresponds to the ID (mRID) of the anomalous PEB. Size: **9 numeric characters maximum.** |
| Version | Corresponds to the version of the anomalous PEB. Size: 3 numeric characters maximum |
| businessType | This field always contains the value: "A02" (Internal trade) Size: 3 alphanumeric characters maximum |
| Product | The value this field contains is "8716867000016" (Active Power) Size: 13 numeric characters maximum |
| objectAggregation | This field is used to indicate whether the PEB type is BRP-BRP or BRP-Site. This field can contain the following values: <br>• "A03" (Party) for a BRP-BRP PEB <br>• "A02" (Metering Point) for a BRP-Site PEB <br> Size: 3 alphanumeric characters maximum |
| 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 code 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 code Size: 3 alphanumeric characters for the codingScheme |

| in_MarketParticipant.mRID | The value in this tag must contain:<br>• the EIC code in X (or Y) of the purchaser BRP accompanied by the codingScheme = "A01"<br>• or the EIC code in Z of the buyer RPT site accompanied by the codingScheme = "A01"<br>• or the PRM code of the buyer RPD site accompanied by the codingScheme = "A01".<br><br>Example:<br><in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
|---|---|
| out_MarketParticipant.mRID | EIC code in X (or Y) for the seller BRP for the PEB identified in the preceding fields.<br>The value in this tag must contain the EIC code in X (or Y) for the seller BRP accompanied by the coding scheme, which is always "A01".<br>Example:<br><out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| measurement_Unit.name | The value this field contains is "MAW" (megawatts)<br>Size: 3 alphanumeric characters maximum |

• 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.<br>Dates/times are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval:<br>YYYY-MM-DDTHH:MMZ |
| Resolution | For a delivery day D strictky lower to the switch date, this field contains the value "PT30M" for a 30-minute step.<br>For a delivery day D equal or greater to the switch date, this field contains the value "PT15M" for a 15-minute step. |

• Point class:

| FIELDS | DESCRIPTION |
|---|---|
| position | Position of a programming interval. |

| | The value in this field is a positive integer. |
|---|---|
| | For a delivery day D strictky lower to the switch date, depending on the delivery date's day type, the position field will contain one of the following values:<br>• From 1 to 48 for a normal day<br>• From 1 to 46 for a day when clocks change from winter time to summer time (a 23-hour day)<br>• From 1 to 50 for a day when clocks change from summer time to winter time (a 25-hour day)<br>The different values in the position field are unique and sequential (no duplicates, no gaps).<br><br>For a delivery day D equal or greater to the switch date, depending on the delivery date's day type, the position field will contain one of the following values:<br>• From 1 to 96 for a normal day<br>• From 1 to 92 for a Winter to Summer time change day (23-hour day)<br>• From 1 to 100 for a Summer to Winter time change day (25-hour day)<br>The different values in the position field are unique and sequential (no duplicates, no gaps). |
| quantity | Value (in megawatts) of the block exchange for a position. Each value is a number with a maximum of two digits after the decimal point, higher than zero.<br>Example: 142.75<br><br>For a PEB awaiting matching, the values are those of the PEB awaiting matching.<br>For a PEB awaiting nomination, the values are those of the counterpart's PEB.<br>For an obsolete PEB, the values are those from the obsolete PEB.<br>If a PEB is matched while its status is pending, the values are those of the MATCHED PEB<br>If a MATCHED PEB is obsolete, the values are those from the obsolete MATCHED PEB |

- Reason class (associated with an TimeSeries as shown in the information template):
  - ○ "Code" field:
    - ▪ the code is required (size: 3 alphanumeric characters maximum).
    - ▪ The codes used are specified below.
  - ○ "Text" field:
    - ▪ For each code, this tag is always filled in (size: 512 alphanumeric characters maximum).

- 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.* | PEB awaiting matching. The counterpart of the BRP that has initiated the request has not sent a PEB for matching. |
| Z15 | *For action: counterpart TimeSeries addedcounterpart* | PEB awaiting nomination. A counterpart declared an exchange with the BRP initiating the request but it has still not sent the complementary PEB. |
| A67 | *Limit Data is not available.* | Pending matched PEB. The BRP and its counterpart have each sent a schedule document and the exchange is awaiting validation by "validation process". |
| A09 | *Quantity differences.* | Mismatched pending PEB. (TimeSeries level message) The BRP and its counterpart have each sent a TimeSeries but <u>all</u> the time intervals have a different quantity. |
| A09 | *Timeseries not matching. Quantity differences.* | Mismatched pending PEB. The BRP and its counterpart have each sent a TimeSeries but they have at least one different and one identical quantity for the same time interval in their declarations. |
| A09 | *Quantity differences.* | Mismatched pending PEB. (Point level message) A different quantity was declared by the buyer and seller for that time interval. |

PEB IT Rules

| Value of the code field | Value of the text field | Comments |
|---|---|---|
| A57 | *Deadline passed without counterpart nomination.* | PEB obsolete in intra-day.<br><br>This code is accompanied by code A28 if the PEB was waiting for matching before the deadline for receipt from the counterpart. This code is accompanied by code Z15 if the PEB was waiting for nomination before the deadline time for receipt from the counterpart.<br><br>The deadline time for receipt is defined in article 4.4.2. |
| A57 | *End of DA process without counterpart nomination.* | PEB obsolete in Day Ahead.<br><br>This code is accompanied by code A28 if the PEB was waiting for matching before the deadline for receipt from the counterpart. This code is accompanied by code Z15 if the PEB was waiting for nomination before the deadline time for receipt from the counterpart.<br><br>The deadline time for receipt in Day Ahead process is defined in article 4.4.2. |
| B27 | *The Financial Security didn't have the time to treat the Schedule Document.* | The Schedule Document was sent too late and the last "validation process" could not take it into account.<br><br>The BRPs of the concerned exchange must rename the document for it to be taken into account. |

## 6.4 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 12.00 midnight on D-1).

The Confirmation Report file's name format is as follows:

```
PEB_ConfirmationReport_<EIC of the recipient BRP>_<delivery date>_<Process
   type>_<date/time of generation of the file>.xml
```

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

Sample file name:
For a BRP with the EIC code "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:
PEB_ConfirmationReport_10X0123456789012_20191012_A18_20191012150124.xml

The confirmation report uses the following XSD files:
   o iec62325-451-2-confirmation_v5_0.xsd
   o urn-entsoe-eu-wgedi-codelists.xsd
   o urn-entsoe-eu-local-extension-types.xsd

The XSDs for these files are supplied by RTE on the RTE services portal (https:// https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html ), at the bottom of the page on the "XSD formats" link.
**These XSD files and not those available on the ENTSO-E website are used to generate the Confirmation Report file.**
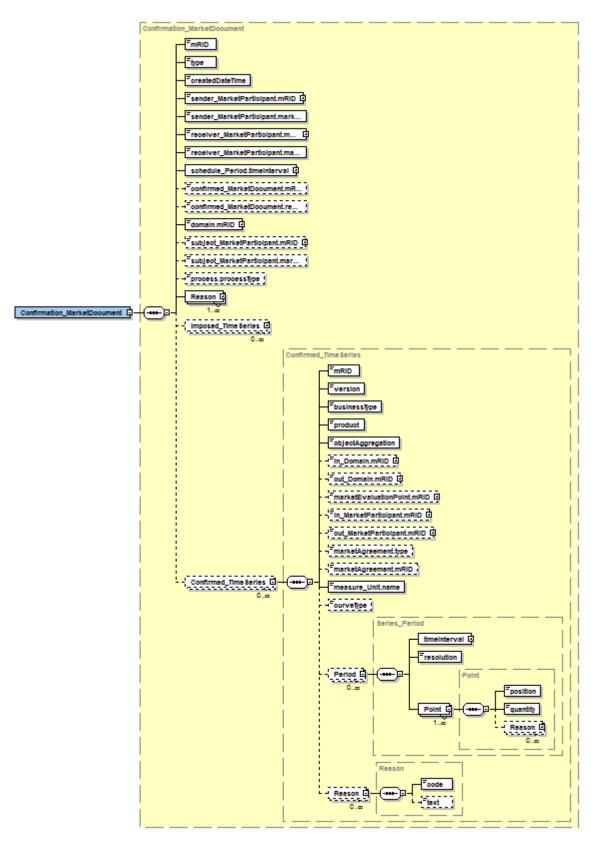The encoding is UTF-8.

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



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

### 6.4.1 Confirmation_MarketDocument class

| FIELDS | DESCRIPTION |
|---|---|
| mRID | This field is the confirmation report ID.<br>The value this field contains must be unique for all files (acknowledgement of receipt, anomaly report, confirmation report, publication report) generated by the PEB application.<br>Size: 35 alphanumeric characters maximum |
| type | This field can contain the value "A07" (intermediate confirmation report) or "A08" (final confirmation report).<br>It is a final confirmation report in the event that:<br>- The processType is A01 and the D-1 4.30pm fixing window has closed<br>- The processType is A18 and the last interval has begun (nomination no longer possible, at 11.30pm for a 30-minute interval or at 11.45pm for a 15-minute interval)<br>Otherwise, it is an intermediate confirmation report.<br>Size: 3 alphanumeric characters maximum |
| createdDateTime | Date and time the confirmation report was generated by the PEB application.<br>The date and time are expressed in UTC time, in the format: YYYY-MM-DDTHH:MM:SSZ |
| sender_MarketParticipant.mRID | The value of this tag is always the RTE ID code:<br>"10XFR-RTE------Q" accompanied by the coding scheme, which is "A01"<br>Example:<br><sender_MarketParticipant.mRID codingScheme="A01">10XFR-RTE------Q</sender_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| sender_MarketParticipant.marketRole.type | The value of this tag is always "A04" (System Operator)<br>Size: 3 alphanumeric characters maximum |
| receiver_MarketParticipant.mRID | The value in this tag must contain the EIC code in X (or Y) of the BRP for which the PEB application generated a confirmation report. This is the BRP receiving the confirmation report.<br>The coding scheme is "A01"<br>Example:<br><receiver_MarketParticipant.mRID codingScheme="A01">10X0123456789012</receiver_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| receiver_MarketParticipant.marketRole.type | The value in this tag is "A08" (Balance responsible party)<br>Size: 3 alphanumeric characters maximum |

| FIELDS | DESCRIPTION |
|---|---|
| schedule_Period.time Interval | 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.<br>Dates/times are expressed in UTC time, in the format: YYYY-MM-DDTHH:MMZ<br>The start date/time is necessarily the end date/time − 1 day.<br>If the date falls within the summer time period, the time (HH:MM) must be 22:00.<br>If the date falls within the winter time period, the time (HH:MM) must be 23:00.<br>Example taking the date of 1 October 2014:<br>&lt;schedule_Time_Period.timeInterval&gt;<br>  &lt;start&gt;2014-09-30T22:00Z&lt;/start&gt;<br>  &lt;end&gt;2014-10-01T22:00Z&lt;/end&gt;<br>&lt;/schedule_Time_Period.timeInterval&gt;<br><br>Example taking the date of 26 October 2014 (the date of the change to winter time):<br>&lt;schedule_Time_Period.timeInterval&gt;<br>  &lt;start&gt;2014-10-25T22:00Z&lt;/start&gt;<br>  &lt;end&gt;2014-10-26T23:00Z&lt;/end&gt;<br>&lt;/schedule_Time_Period.timeInterval&gt; |
| confirmed_MarketDoc ument.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 PEB application on the basis of this request.<br>Size: 35 alphanumeric characters maximum |
| confirmed_MarketDoc ument.revisionNumbe r | 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 PEB application on the basis of this request.<br>Size: 3 numeric characters maximum |
| domain.mRID | This field contains "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01".<br>Size: 18 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| process.processType | This field can contain the value "A01" (day ahead) or "A18" (intra-day total)<br>Size: 3 alphanumeric characters maximum |

6.4.1.1 The reason class associated with a ConfirmationReport is required:

- o "Code" field:
  - ▪ the code is required (size: 3 alphanumeric characters maximum).
  - ▪ The codes used are specified below.
- o "Text" field:
  - ▪ For each code, this tag is always filled in (size: 512 alphanumeric characters maximum).
  - ▪ 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* | Indication on the level of acceptance of the Schedule Document: all of the **matched** PEBs of the BRP (to which the confirmation report is sent) are associated with a matched, validated and **concordant** PEB.<br><br>By the way, in this case the report does not contain an <Imposed_TimeSeries> class |
| A07 | *Schedule partially accepted* | Indication on the level of acceptance of the Schedule Document: all of the **matched** PEBs of the BRP (to which the confirmation report is sent) are associated with a matched, validated PEB but at least one of these matched, validated PEBs is discordant, i.e.: modified manually . |

6.4.1.2 Confirmed_TimeSeries class:

| FIELDS | DESCRIPTION |
|---|---|
| mRID | Corresponds to the mRID field of the PEB that is confirmed.<br>Size: **9 numeric characters maximum.** |
| Version | Corresponds to the version field of the PEB that is confirmed.<br>Size: 3 numeric characters maximum |
| businessType | This field always contains the value: "A02" (Internal trade) |
| Product | The value this field contains is "8716867000016" (Active Power)<br>Size: 13 numeric characters maximum |

| FIELDS | DESCRIPTION |
|---|---|
| objectAggregation | This field is used to indicate whether the PEB type is BRP-BRP or BRP-Site.<br>This field can contain the following values:<br>• "A03" (Party) for a BRP-BRP PEB<br>• "A02" (Metering Point) for a BRP-Site PEB<br>Size: 3 alphanumeric characters maximum |
| in_Domain.mRID | The value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01"<br>Size: 16 alphanumeric characters for the EIC code<br>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"<br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| in_MarketParticipant.mRID | The value in this tag must contain:<br>• the EIC code in X (or Y) of the purchaser BRP accompanied by the codingScheme = "A01"<br>• or the EIC code in Z of the buyer RPT site accompanied by the codingScheme = "A01"<br>• or the PRM code of the buyer RPD site accompanied by the codingScheme = "A01".<br><br>Example:<br><in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| out_MarketParticipant.mRID | EIC code in X (or Y) of the selling BRP from the schedule document that is the subject of the confirmation report<br>The value in this tag must contain the EIC code for the seller BRP accompanied by the coding scheme, which is always "A01".<br>Example:<br><out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| measure_Unit.name | The value this field contains is "MAW" (megawatts)<br>Size: 3 alphanumeric characters maximum |

## 6.4.1.3 Imposed_TimeSeries class:

| FIELDS | DESCRIPTION |
|---|---|
| mRID | Corresponds to the mRID field of the imposed PEB.<br>Size: **9 numeric characters maximum.** |
| Version | Corresponds to the version field of the imposed PEB.<br>Size: 3 numeric characters maximum |
| businessType | This field always contains the value: "A02" (Internal trade) |
| Product | The value of this field is "8716867000016" (Active Power)<br>Size: 13 numeric characters maximum |
| objectAggregation | This field is used to indicate whether the PEB type is BRP-BRP or BRP-site.<br>This field can contain the following values:<br>• "A03" (Party) for a BRP-BRP PEB<br>• "A02" (Metering Point) for a BRP-Site PEB<br>Size: 3 alphanumeric characters maximum |
| in_Domain.mRID | The value this field contains is "10YFR-RTE------C" (RTE domain), accompanied by the coding scheme "A01"<br>Size: 16 alphanumeric characters for the EIC code<br>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"<br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| in_MarketParticipant.mRID | The value in this tag must contain:<br>• the EIC code in X (or Y) of the purchaser BRP accompanied by the codingScheme = "A01"<br>• or the EIC code in Z of the buyer RPT site accompanied by the codingScheme = "A01"<br>• or the PRM code of the buyer RPD site accompanied by the codingScheme = "NFR".<br><br>Example:<br><in_MarketParticipant.mRID codingScheme="A01">10X0123456789012</in_MarketParticipant.mRID><br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| out_MarketParticipant.mRID | EIC code of the seller BRP from the schedule document that is the subject of the confirmation report<br>The value in this tag must contain the EIC code in X (or Y) of the seller BRP accompanied by the coding scheme, which is always "A01".<br>Example: |

| FIELDS | DESCRIPTION |
|---|---|
| | `<out_MarketParticipant.mRID codingScheme="A01">10X0123456789012</out_MarketParticipant.mRID>`<br>Size: 16 alphanumeric characters for the EIC code<br>Size: 3 alphanumeric characters for the codingScheme |
| measure_Unit.name | The value this field contains is "MAW" (megawatts)<br>Size: 3 alphanumeric characters maximum |

- 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.<br>The date/time are expressed in UTC time. The format is identical to the field schedule_Time_Period.timeInterval:<br>YYYY-MM-DDTHH:MMZ |
| Resolution | Resolution of the values.<br>For a delivery day D strictly lower to the switch date, the resolution is on 30 minutes steps, this field therefore has the value "PT30M".<br>For a delivery day D equal or greater to the switch date, resolution is on 15 minutes steps this field therefore has the value "PT15M". |

- Point class:

| FIELDS | DESCRIPTION |
|---|---|
| Position | The position is a interval.<br>The value in this field is a positive integer.<br><br>For a delivery day D strictly lower to the switch date, depending on the type of day of the delivery date, the position field contains one of the following values:<br>• From 1 to 48 for a normal day<br>• From 1 to 46 for a day when clocks change from winter time to summer time (a 23-hour day)<br>• From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day)<br>The different values in the position field are unique (no duplicates, no gaps).<br><br>For a delivery day D equal or greater to the switch date, depending on the type of day of the delivery date, the position field takes on the following values: |

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| | |
|---|---|
| | • From 1 to 96 for a normal day<br>• From 1 to 92 for a Winter to Summer time change day (23-hour day)<br>• From 1 to 100 for a Summer to Winter time change day (25-hour day)<br>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.<br>Each value must be a number with a maximum of 2 digits after the decimal point, zero or higher. Example: 142.75 |

- Reason class associated with the Confirmed_TimeSeries and Imposed_TimeSeries classes:
  - "Code" field:
    - At least one code is required (size: 3 alphanumeric characters maximum).
    - The codes used are specified below.
  - "Text" field:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters maximum).
    - 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 |
|---|---|---|
| A88 | Time series matched. | Indication on the level of acceptance of the Timeseries: the PEB has been validated |
| A09 | *Time series not matching. Quantity differences.* | Indication on the level of acceptance of the Timeseries: at least one of the PEB points is discordant (the buyer and the seller have not declared the same value) |
| A09 | *Quantity differences* | Indication on the level of acceptance of the Timeseries: all of the points in the Timeseries are discordant. |

| Value of the code field | Value of the text field | Comments |
|---|---|---|
| A09 | *Quantity differences* | Indication of one point of the Timeseries: the point is discordant (the buyer and the seller have not declared the same value). Note: If a concordant interval in the past is changed on the ID process by one of the BRP, the change is not taken into account and the time interval remains concordant. However, for information purposes, the Confirmed_TimeSeries of the confirmation report has a code A09 indicating that the BRP is no longer in phase with what it nominated in the past. |

## 6.5 Publication report

The publication report is an XML document of the same type as the schedule document. In addition, it uses its xsd data files.

The publication report is used to inform a BRP of its PEB balances 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:

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

Where:

<the EIC of the recipient BRP> is the EIC code in X (or Y) for 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 generation of the file > is the date and time the file was generated in YYYYMMDDHHMMSS format.

Sample file name:

for a BRP with the EIC code "10X0123456789012", for which RTE addresses a publication 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:

PEB_PublicationReport_10X0123456789012_20191012_2_20191012150124.xml

The publication report uses the following XSD files:
- o iec62325-451-2-schedule_v5_0.xsd
- o urn-entsoe-eu-wgedi-codelists.xsd
- o urn-entsoe-eu-local-extension-types.xsd


The XSDs for these files are supplied by RTE on the RTE services portal (https://www.services-rte.com/en/learn-more-about-our-services/becoming-a-balance-responsible-party/the-block-echange-service.html), at the bottom of the page on the "XSD formats" link.
**These XSD files and not those available on the ENTSO-E website are used to generate the Publication Report file**
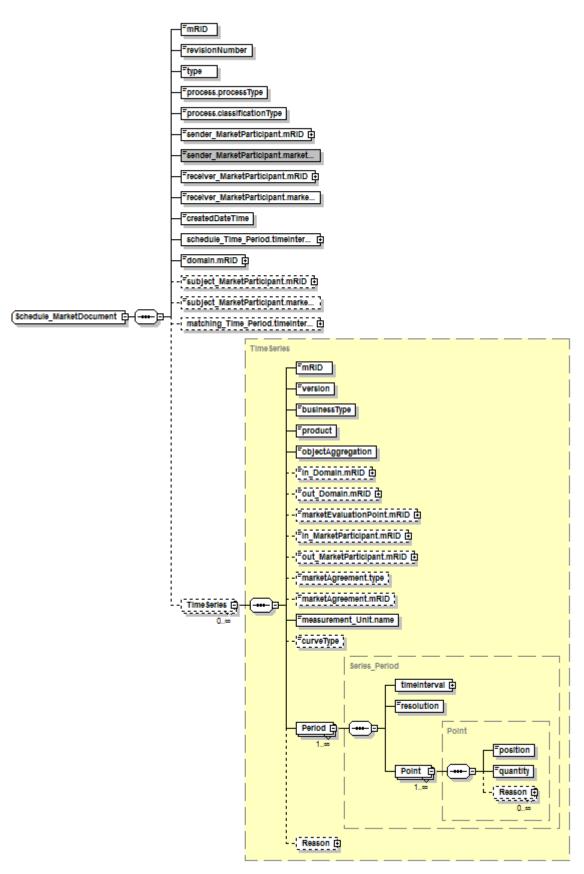The encoding is UTF-8.

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

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

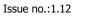## 6.5.1 Schedule_MarketDocument class:

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

| | |
|---|---|
| createdDateTime | Date and time of generation of the publication report by the PEB application. <br> 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 corresponds to the delivery date for which the publication report is generated. <br> 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" <br> Size: 18 alphanumeric characters for the EIC code <br> Size: 3 alphanumeric characters for the codingScheme |

## 6.5.1.1 TimeSeries class:

| FIELDS | DESCRIPTIONS |
|---|---|
| mRID | Unique ID of the TimeSeries in the publication. <br> Size: 35 alphanumeric characters maximum |
| version | TimeSeries version number (value between 1 and 999). <br> Size: 3 numeric characters maximum |
| businessType | This is the market type: <br> • PEB: Z44 <br> • PEB PREV: Z48 <br> The business types are not permanent. <br> Size: 3 alphanumeric characters maximum |
| product | This field must always contain the value "8716867000016" (Active Power) <br> Size: 13 numeric characters maximum |
| objectAggregation | This field must be "A03" (Party). It is used to indicate that it is an aggregation per BRP. <br> Size: 3 alphanumeric characters maximum |
| in_MarketParticipant.mRID | This is the EIC code in X (or Y) of the purchaser BRP in the case of a purchase or a total net purchase. <br> The codingscheme is A01. <br> It is empty in the case of a sale or total net sale. <br> Size: 16 alphanumeric characters for the EIC code <br> Size: 3 alphanumeric characters for the codingScheme |
| out_MarketParticipant.mRID | This is the EIC code in X (or Y) for the seller BRP in the case of a sale or total net sale. <br> The codingscheme is A01. <br> It is empty in the case of a purchase or a total net purchase. <br> Size: 16 alphanumeric characters for the EIC code <br> Size: 3 alphanumeric characters for the codingScheme |

| measurement_Unit. name | This field contains the value "MWH" (Mega Watts Hour). Size: 3 alphanumeric characters maximum |
| --- | --- |

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 maximum).
    - The codes used are specified below.
  - "Text" field:
    - For each code, this tag is always filled in (size: 512 alphanumeric characters maximum).
    - 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 |
| --- | --- | --- |
| B01 | Estimation with partial data | If the time series is an assessment which is incomplete. I.e. there are data missing in the calculation. |

- Series_Period class:

| 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 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 | Indicates the resolution of the values. For a delivery day D strictly lower to the Switch Date, two resolutions can be requested: PT30M or P1D for all timeseries For a delivery day D greater than or equal to the Switch Date, two resolutions can be requested: PT15M or P1D for all timeseries |

- Point class:

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| FIELDS | DESCRIPTIONS |
|---|---|
| position | The position is a interval.<br>The value this field contains is a positive integer.<br><br>For a delivery day D strictly lower to the Switch Date,<br>depending on the delivery date's day type, the position field must have one of the following values:<br>• From 1 to 48 for a normal day<br>• From 1 to 46 for a day when clocks change from winter time to summer time (a 23-hour day)<br>• From 1 to 50 for a day when clocks are switched from summer time to winter time (a 25-hour day)<br>The different values in the position field are unique (no duplicates) and must follow each other in sequence (no gaps).<br><br>For a delivery day D greater than or equal to the Switch Date, depending on the delivery date's day type, the position field must have one of the following values:<br>• From 1 to 96 for a normal day<br>• From 1 to 92 for a Winter to Summer time change day (23-hour day)<br>• From 1 to 100 for a Summer to Winter time change day (25-hour day)<br>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 exchange for a position. Value (in MWH) for a daily total.<br>Each value is a number with a maximum of 2 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.class ificatio nType | in_Mar ketPar ticipan t.mRID | out_Ma rketPar ticipant .mRID | resolution |
|--------|--------------|------------------------------|------------------------------|------------------------------|------------|
| PEB sale | Z44 (PEB) | A01 | | BRP | PT15M or PT30M or P1D |
| PEB PREV sale | Z48 (PEB PREV) | A01 | | BRP | PT15M or PT30M or P1D |
| PEB purchase | Z44 (PEB) | A01 | BRP | | PT15M or PT30M or P1D |
| PEB PREV purchase | Z48 (PEB PREV) | A01 | BRP | | PT15M or PT30M or P1D |
| PEB total net sale | Z44 (PEB) | A02 | | BRP | PT15M or PT30M or P1D |
| PEB PREV total net sale | Z48 (PEB PREV) | A02 | | BRP | PT15M or PT30M or P1D |
| PEB total net purchase | Z44 (PEB) | A02 | BRP | | PT15M or PT30M or P1D |
| PEB PREV total net purchase | Z48 (PEB PREV) | A02 | BRP | | PT15M or PT30M or P1D |

# 7. Non-availability of the PEB application

## 7.1 PEB application downgraded mode

Downgraded mode refers to situations where the IS is unable to carry out its functions. If the normal PEB operation is hindered by a problem linked to RTE's information system, 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 – PEB: Switch to downgraded mode*

Dear Customer,

Due to a technical issue on the application PEB, could you please send your PEB programs at xml format by email on the following address : RTE-CNES-RESCUEBOX@RTE-FRANCE.COM.

To avoid any rejection, please follow the requirements specified in the IT rules regarding the name of the file:

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

<sender BRP EIC code> is the EIC code in X (or Y) of the BRP sending the file

<delivery date> is the delivery date of the PEB in the date format YYYYMMDD

<date/time of generation of the file> is the date and time the file was generated in YYYYMMDDHHMMSS format

Don't forget to increment the version numbers of the documents as well as the timeseries to be modified:

Document: <revisionNumber> document version number</revisionNumber>

Timeseries: <timeseries version>/version>


We will keep you informed of the evolution of the situation as fast as possible.

The Publication Report and Confirmation Report will not be achieved at the regular hours, entailing that RTE will not be capable of releasing this information by telephone, but will send them by email later on.

We apologize for any trouble you might have experienced.

*Best Regards,*


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 PEBs received during the period of downgraded mode operation as quickly as possible, or ex post, without any additional action by BRPs.


| END OF DOCUMENT |
| --- |