



TOPASE Application Exchange Implementation Guide

Version 2.4

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Implementation Guide for exchanges with the TOPASE application

TOPASE Application Exchange Implementation Guide

CHANGE HISTORY

Change History		
06/06/2017	V1.0	Initial Version
15/06/2017	V1.1	Amendment of the bid filing methodology (§4.1.6) Addition of the Forecast Dispatch Schedules (PA) section
11/01/2018	V1.2	Addition of Details
25/05/2018	V1.3	Addition of PA Details
14/09/2018	V1.4	Amendment of the agreement defining the bid mRID Addition of URLs Addition of PA details (closed gate case)
23/11/2018	V 1.5	xsd update for RR standard bids (v7.1) Additional details on the PA deposit (redeclaration type, control on the mRID of PA time series, controls on SSY values) Addition of HMI URLs Updating of swagger URLs
18/10/2019	V 1.6	Updating of the bid lifecycle Updating of bid controls Updating of the 'Offer Report' API settings
10/02/2021	V 1.7	Updating of bid controls Controls updated on the forecast dispatch schedules
03/01/2022	V1.8	Bid support validity check added Check on bid price changed Updating of bid controls
10/01/2023	V1.8.1	Update of controls for ancillary services Update of price caps
26/09/2023	V1.9	Addition of specific bids process
01/04/2024	V1.10	Added the section concerning the connexion to the pre-production web HMI Added negative price acceptance for upward offers Added clarification on the offer start index and the number of possible offers on an EDA. Added clarification on the structure of actions: "SOUM", "MODI" and "ANNU" of the Offers with examples.

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		Addition of wind power to the fuel type accepted for an EDP in CT_PROD_5. Added clarification on the cancellation of a CT_PROD_5. Addition of precision to the API Consultation of the daily log message. Addition of a PROD URL: Submission of offer and Constraint. Addition of a PROD URL for daily message log consultation. Added list of information and error messages to the daily log message.
01/09/2024	V1.11	[§5.1.2] : control of the authorization of a Balancing Entity to submit start-up bids [§ 5.1.3.1] Addition of photovoltaic to the fuel type accepted for an EDP in CT_PROD_5.
01/12/2024	V1.12	[§5.1.9] : respect of the Neutralisation Lead Time during intraday redeclaration of CT_CE file
26/02/2025	V1.13	[§5.1.3.2] : restriction of the number of characters in the description of the CT_PROD_5 "Tests" field extended to 10,000 instead of 256. [§5.1.9] : added clarification for early transmission of CT_CE files for intraday redeclaration. [§5.1.9.2] : additionnal controls for CT_CE files. [§6] : update of accepted resolutions for PA files.
01/11/2025	V1.14	[§5.1.3] : Details on the type of production installation using CT_PROD_5 and transmission rules of gradients [§5.1.5] Description update of the mobilisation lead time for start-up bids. [§5.1.9.2] : Additional controls of CT_CE.
25/11/2025	V2.0	[§5] Increase to 96 intraday gates and change of nomenclature for CT_CE files. [§5] End of processing of CT_PROD 3 and 4 [§6] Increase to 96 intraday gates.
21/04/2026	V2.1	[§5] Granularity change of bid usage conditions, intraday submission of CT_PROD files and nomenclature change for bid usage conditions files
30/04/2026	V2.2	Deletion of the TERRE process chapter Deletion of the CT_PROD3 and 4 chapter Deletion of the PR₄, PR₅, TP₁ et MA₁₃ changes [§5] Addition of the Gates state API documentation

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01/07/2026	V2.3	[§4.1.7.2] Additional control for bid usage conditions of small offers
01/10/2026	V2.4	[§1.1] Addition of TP₃ date [§4.1.5] Transmission of D_{OmaxH}, NbActH and DNAH for implicit bids [§4.1.6] Transmission of D_{OmaxB}, NbActB and DNAB for implicit bids [§4.1.7] Transmission of DNAH and DNAB for explicit bids [§5.1.13] Rejection of Forecast Dispatch Schedules if reception after gate closure

NEW!

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1 General provisions

1.1 Purpose of the document

This document is intended for users of the Transmission of Offers and Schedules (TOPASE) application. This system is implemented to ensure that RTE receives all balancing bids (specific and standard), technical constraints and forecast dispatch schedules. It is therefore intended for all Balancing Service Providers and Scheduling Agents.

Since May 2019, this application has been in use, enabling forecast dispatch schedules to be received from Scheduling Agents.

Since December 2020, Balancing Service Providers have been able to submit standard RR bids (for sharing *via* the European TERRE platform).

From September 2023 onwards, technical constraints and specific balancing offers are accepted by TOPASE instead of SYGA.

As of 27 January 2026, the number of intraday scheduling and balancing gates went from 24 to 96, and as of 22 April 2026 the resolution of time series in bid usage condition files changed to 15 minutes (96 values).

NEW!

As of date TP₃, Balancing Service Providers will be able to include their D_Omax, NbAct and DNA in the Bid Usage Conditions.

This document is an integral part of the IS Rules and enables:

- definition of the process for forwarding the forecast dispatch schedules;
- definition of the process for forwarding standard RR balancing bids associated with the TOPASE application;
- definition of the process for forwarding specific balancing bids associated with the TOPASE application;
- presentation of the technical methods to be implemented to use the TOPASE application.

1.2 Reference documents

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

No.	Document Title	Source
[1]	General IS Appendix	http://clients.rte-france.com/lang/fr/visiteurs/accueil/portail.jsp
[2]	PKI Software Certificate User Manual	http://clients.rte-france.com/lang/fr/visiteurs/accueil/portail.jsp
[3]	ReserveBidDocument ENTSOE	iec62325-451-7-reservebiddocument_v7_1
[4]	Code list ENTSOE	https://clients.rte-france.com/lang/fr/clients_traders_fournisseurs/services_clients/terre.jsp
[6]	Acknowledgement document ENTSOE	iec62325-451-1-acknowledgement_v8_0.xsd

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[7]	Introduction to TOPASE HMI	https://www.services-rte.com/en/learn-more-about-our-services/transmission-of-balancing-energy-bids.html
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In the event of inconsistencies between this Implementation Guide and the reference documents cited above, the indications of the present guide shall prevail.

1.3 Changes in technical specifications

Each of the technical specifications in this implementation guide can be revised at RTE's initiative. Unless otherwise specified, users will be notified of these revisions at least six (6) months before they are scheduled to come into operational service.

2 Access to the RTE IS

The terms and conditions for access to the RTE IS are defined by the rules for access to the information system and the use of RTE applications.

(<http://clients.rte-france.com/lang/fr/visiteurs/accueil/portail.jsp>).

2.1 TOPASE Application

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

2.2 Prerequisites

To access the TOPASE application, Balancing Service Providers or Scheduling Agents must:

- have a valid PKI certificate attached to the TOPASE application;
- have a valid Balancing Service Provider or scheduling agent participation agreement.

A PKI certificate will be required for testing and another certificate will be required for the production phase.

2.3 Obtaining a PKI certificate

In order to be able to use the web HMI interface of the TOPASE application, a Balancing Service provider or Scheduling Agent must send a request to his CRC (Customer Relationship Manager).

After this request, an electronic key for connecting to the RTE IS (PKI certificate) is provided to the Balancing Service provider or Scheduling Agent. This key must be set up in the manner described in the reference document [2].

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2.4 Connecting to the Web HMI

The web HMI interface of the TOPASE application is accessible with a web browser, with an electronic key to connect to the RTE IS (see below). §), at the following URL¹:

Solution for access to the RTE IS (see § 2 above)	Type of access	Connection URL
TOPASE Test Platform²	Internet	https://secure-apps-dev.iservices.rte-france.com/topase-web/
TOPASE Platform in production	Internet	https://secure-apps.iservices.rte-france.com/topase-web/

The TOPASE Web HMI is a thin client. Specifically, web pages can be viewed with the Chromium Edge browser without any additional plug-ins. RTE is committed to working only with this browser.

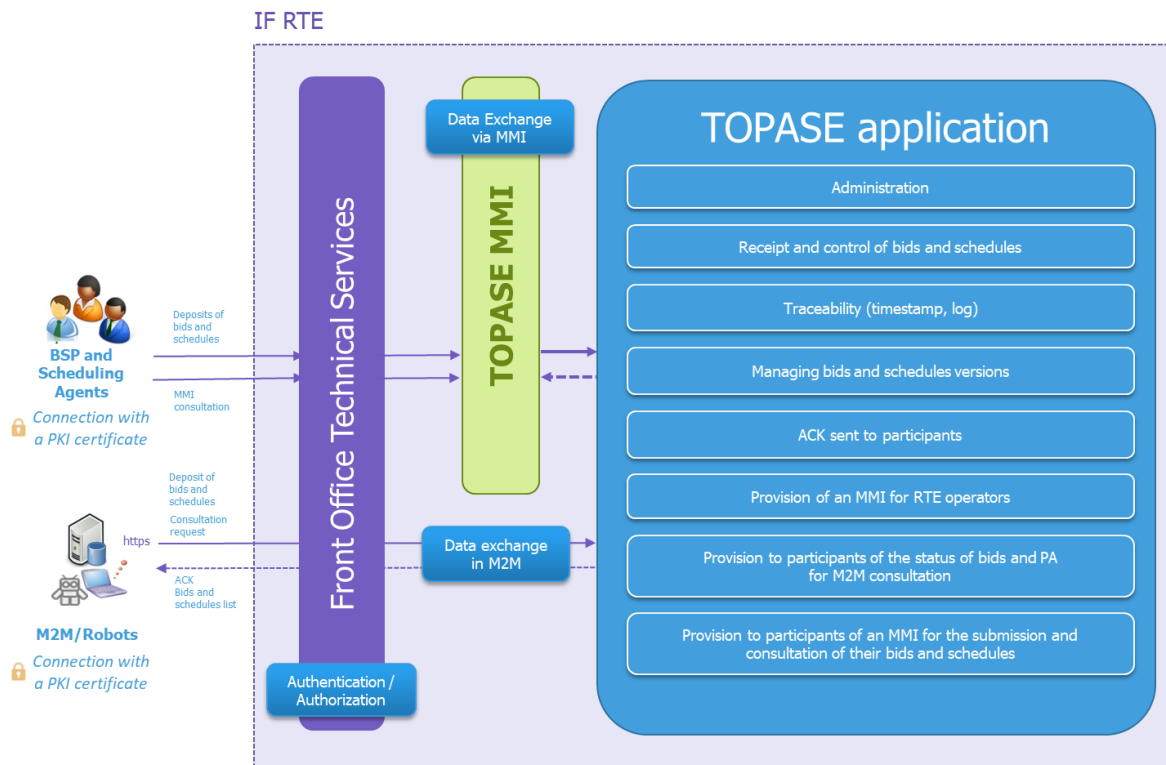
The screens and main features of the TOPASE Web HMI are described in the reference document [7].

¹ The URL varies depending on the type of access to the RTE IS. These URLs are given as an indication and can be modified by RTE.

² This platform is available to customers who wish to perform tests. A dedicated PKI certificate for this platform is to be requested by the customer from his customer relationship manager.

3 TOPASE Application Architecture

The following diagram presents the overall architecture of the TOPASE application:



3.1 Interfacing solutions

For a Balancing Service provider, there are two ways to interface with the TOPASE application, namely:

An interface called "Web HMI":

Technically, the interface accesses an RTE website. The Balancing Service provider or Scheduling Agent may carry out the following operations:

- Submission of a bid document
- Filing a PA document
- View the log of exchanges with RTE
- View the status of one or more bids
- View reported PAs and selected PAs

Details for the installation are presented in chapters **Erreur ! Source du renvoi introuvable..**

Machine to Machine (M2M) interface:

This interface can be installed by all Balancing Service Providers and Scheduling Agents. This interface is technically composed of:

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- a service allowing Balancing Service Providers and Scheduling Agents to send a bid or Forecast Dispatch Schedule document;
- a service to view the status of one or more bids;
- a service to view the status of one or more Forecast Dispatch Schedules.

Details for the installation of this interface are presented in chapters **Erreur ! Source du renvoi introuvable.**, 5.3 and 6.4 below.

The following table summarises the functionality available for each interface:

Features for Balancing Service Providers and Scheduling Agents	By API	Loading a document via HMI	HMI consultation
Forward specific balancing bids	X	X	
Edit a specific balancing bid	X	X	
Cancel a specific balancing bid	X	X	
Obtain a list and the status of specific balancing bids	X	X	X
Get details of a specific balancing bid	X	X	X
View MessageLogs	X	X	X
Submit a Forecast Dispatch Schedule	X	X	X
Consult acknowledgement of receipt of forecast dispatch schedule	X		X
View the forecast dispatch schedule selected by RTE	X		

3.2 Solutions for accessing RTE's IS

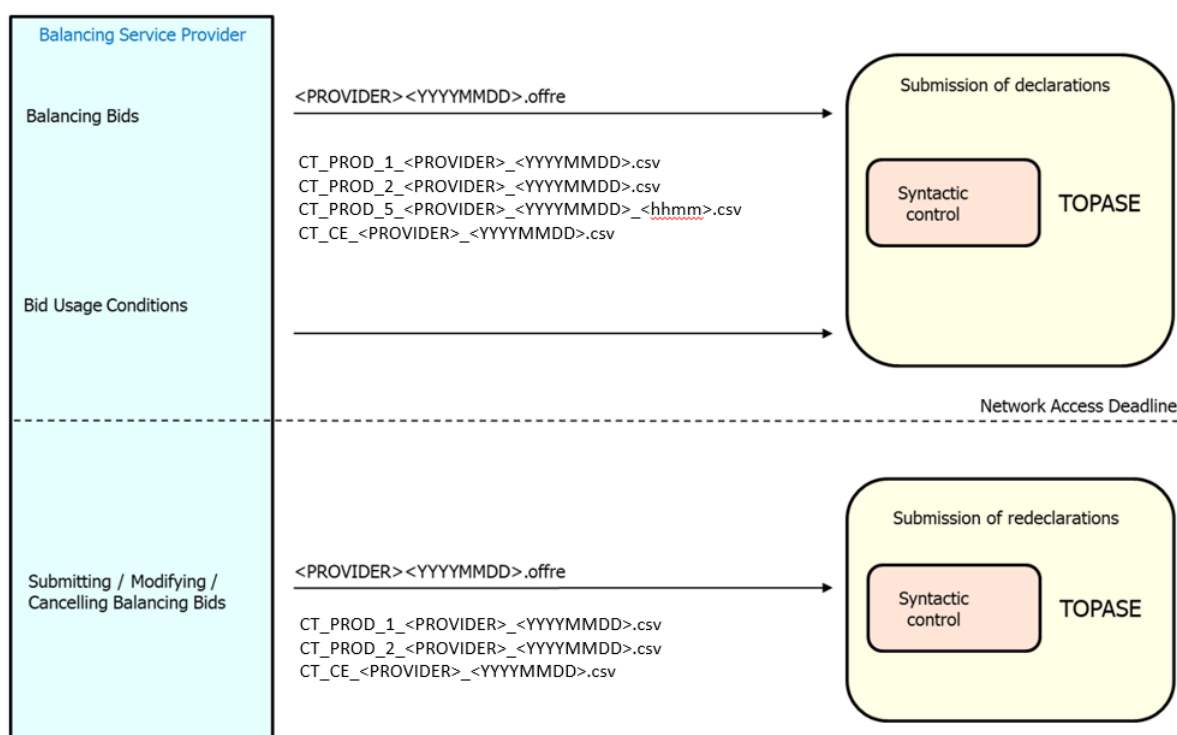
The TOPASE application is accessible through the RTE Front Office. RTE's Front Office is a set of information technology resources made available by RTE, allowing access to its IT system and applications.

4 Transmission of specific bids by Balancing Service Providers to RTE

4.1 Transmission process

4.1.1 Csv Document for specific bids

The files exchanged between the Balancing Service Providers and the TOPASE application are in "csv" format, as follows:



In general, and unless specified in the document:

- All messages are sent in ".csv" format with a semi-colon separator (the use of an "excel" format is forbidden, and opening files with "excel" generates errors in the files, so the user must not use "excel" for the files in this chapter 4).
- The semi-colon should not be used as a character within a value or comment. It is reserved exclusively as a field separator,
- The 26 letters of the alphabet (without accents and diacritics) and numbers are the only characters allowed. The following characters should not be included in the comment fields: accented characters, <, >, ', ", &, semi-colon.
- In file names, the data contained within the < and > signs is variable data. The other elements must be included as they are in the file name.

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4.1.2 Sending ".offre" files : balancing bids

The Balancing Service Provider can also enter the bids directly into TOPASE.

Syntactic controls

Syntax controls on contents and file names are performed as soon as they are loaded. Only the correct lines in the file are kept. Unused field values must be respected. A semi-colon therefore needs to be inserted between two fields even if the field has not been filled in.

Error and information messages help the Balancing Service Provider to identify errors in the file.

- If there is an error message on a line, the provider must provide a new file with just the corrected line inside it. The correct lines have indeed been scheduled for the next suitable available gate closure (day ahead or intraday).

Before passing the gate closure, if the BSP wish to modify a line that has already been sent and accepted, they must provide a new file containing the line modifying the bid (MODI), since the first version of the bid has been scheduled for the next suitable available gate closure (day ahead or intraday)

After passing the gate closure, the bids can still be modified (MODI) and deleted (ANNU) at the next gate closures in compliance with the neutralisation lead time, if they are not activated in the meantime by RTE.

If the BSP wishes to modify the adjustment period, the direction of the offer, the validity period on a line (which corresponds to an offer), then he must delete and then create a new offer with the new data he wishes to integrate. In this way, only the price and comment associated with an offer can be modified.

The actor can modify or cancel the offer as long as the status is not "FDN" (see offer status below).

Other reason for REJECTING lines from the file

For the same given EDA, a file must contain at the most:

- a start-up bid (start index equal to 1) on the range [0h-24h].
- An upward bid and a downward bid per Price segment,

Otherwise, all of this Balancing Entity's bids are rejected.

A start-up bid is also rejected if the Balancing Entity sending it does not have the authorization to submit start-up bids.

Offer status

At the time of submission of an offer file, the status of an offer contained in this file is "S" (i.e. for submitted) if the submission is successful. At the gate following submission, the status of the offer changes to "PC" (i.e. for taken into account). It changes status to "FDN"

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(i.e. for end of neutralization period) one hour before the start of its validity period (one hour corresponding to the neutralization period in accordance with market rules).

Early file transmission (before the day ahead)

Bid files for the day ahead gate closure of the network access deadline can be sent up to 7 days in advance.

The date given in the file name is the date of the day on which the bids are made.

The bid file's format is identical regardless of the date of submission (these files may contain bids / modifications and bid cancellations).

After the network access deadline, the bids submitted are placed at the first suitable gate closure available, where they are accepted or rejected in compliance with the balancing mechanism's rules.

Redeclaration files transmission

In intraday, redeclaration gates are positioned on each quarter hourly interval of the day.

4.1.2.1 Details of the ".offre" file

Their formatting in ".csv" format is as follows:

<PROVIDER><YYYYMMDD>.offre

Where:

Field	Description
<PROVIDER>	EIC of the provider
<YYYYMMDD>	Date of the Balancing Period covered by the bids in the file

For example:

PROVIDER20230313.offre is a file submitted before the network access deadline on 12 March 2023 or on the intraday, and containing the bids for 13 March 2023.

4.1.2.2 Contents of the ".offre" file

A - FILE BODY

One line per bid needs to be created. The Balancing Service Provider must provide a different offer (one line) per price segment and per bid direction for all bids, other than start-up bids. The data in the TOPASE bids file must follow the formats described in the table below and the following rules:

- Some data is to be provided by the Balancing Service Provider. This data corresponds to the following case:
 - o Value to fill in: Yes
 - o Value taken into account: Value entered
- Other data is to be provided by the Balancing Service Provider with a prescribed value. This data corresponds to the following case:

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- Value to fill in: Yes
- Value taken into account: Contains the value to be entered
- Some data is not to be filled in, the field will be empty between 2 semi-colons.
This data corresponds to the following case:
 - Value to fill in: No
 - Value taken into account: No value. Any value set by default by TOPASE is specified in parenthesis.

4.1.2.3 Defining the parameters of the .offre file

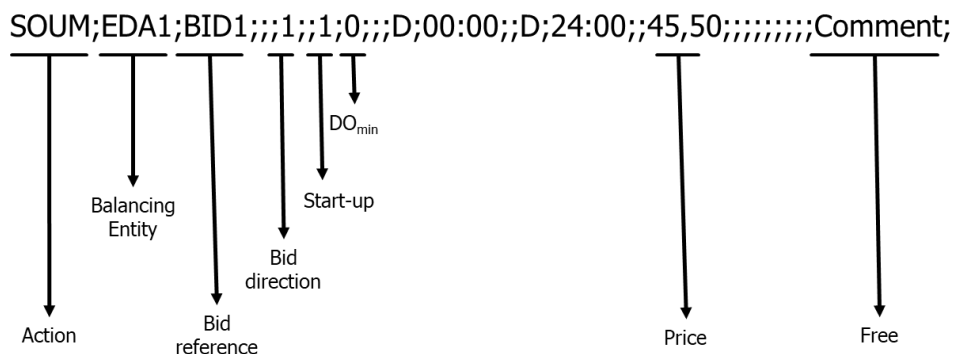
Type of information	Format	Value to enter	Value taken into account
Action	4 characters: - SOUM: for submission action, - MODI: for modification action - ANNU: for withdrawal action	YES	Value entered
EDA code	Balancing Entity code provided by RTE	YES	Value entered
Bid reference	Reference assigned by the Balancing Service Provider. Up to 10 alphanumeric characters (a different reference per price segment for each bid, even if it relates to the same Balancing Entity)	YES	Value entered
Minimum power	MW (10 MW minimum value)	NO	No value (10)
Maximum power	MW (10 MW minimum value)	NO	No value
Bid direction	1 for upward 0 for downward	YES	Value entered
Type of bid	0 for non-splittable 1 for splittable 2 per step	NO	No value (1)
Start Index	0: start-up pitch 1: start-up	YES	Value entered
DO _{min}	Field to be filled in with 0 regardless of the type of bid (start-up or other)	YES	Value set to 0
DO _{max}	Number of hours	NO	No value (24:00)
Mobilisation Lead Time of the bid (DMO)	In number of minutes	NO	No value (0)
Validity start day	J-1 or J (J is the day specified in the file name)	NO	No value (J)
Validity start time	HH:mm Value to fill in:	YES	Value entered

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Type of information	Format	Value to enter	Value taken into account
	For start-up bids: 00:00 For other bids: The start time of the price segment for which the bid is valid.		
Required start time	"1": required, empty or "0": no requirement	NO	No value (0)
Validity end day	J-1 or J (J is the day specified in the file name)	NO	No value (J)
Validity end time	HH:mm Value to fill in: For start-up bids: 24:00 For other bids: The end time of the price segment for which the bid is valid.	YES	Value entered
End time required	"1": required, empty or "0": no requirement	NO	No value (0)
Price / Flat rate	The flat rate is expressed in Euros (without decimals) for the start-up bid. The price is expressed in Euros/MWh for other bids, accurate to 2 decimal places with a comma as separator: - It is positive for an upward bid - It may be zero, positive or negative for a downward bid - It has a value between -10000 and 10000	YES	Value entered.
Maximum energy of the Balancing Entity (E_{max})	in MWh	NO	No value
Level power 1	in MW	NO	No value
Level power 2	in MW	NO	No value
Level power 3	in MW	NO	No value
Level duration (DPa)	In number of hours (½ hour accuracy)	NO	No value
Level change duration (DPa)	In number of minutes	NO	No value
Number of modulations	Positive integer	NO	No value
Number of start-ups / shut-downs	Non-zero positive integer.	NO	No value
Comment	200 characters maximum, the comment is optional.	Optional	Value entered

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For example:



- If the Offer is not a startup offer, the startup index must be set to 0.
- If the Offer is a startup offer, the startup index must be set to 1. In this case :
 - A maximum of one startup offer, in the range [0am-12pm], can be proposed on a balancing entity.
 - The offer must be upward.
 - The fixed price is a round figure within the €999999 limit.

The balancing entities (Bes) made up of thermal units, as defined in the Balancing Mechanism Rules, may therefore be the subject of 13 Offers:

- 1 Upward startup Offer.
- 6 Upward Offers.
- 6 Downward Offers.

An Offer is uniquely determined by the combination of:

- The associated BE code
- The reference of the Offer
- The balancing period of the Offer for its validity

The reference of the Offer Reference must therefore be different for each price band and for each Offer, even if it concerns the same BE.

B - END OF FILE

The last line should be: <EOF> with chevrons.

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4.1.2.4 Complementary information and examples of files

4.1.2.4.1 Type of information: ACTION

4.1.2.4.1.1 Submission of a new Offer (SOUM)

Any line in the file beginning with an Action "SOUM" field is interpreted as an Offer creation. The other information described in the table in the previous chapter must be entered on the same line and in the order described, using a semicolon as a separator.

Example of an .offre file with an offer creation: ACTEUR20230914.offre

- If the file is submitted on September 13, it is a J-1 (day-ahead): it contains the Balancing Offers for the day of September 14, 2023.
- If the file is submitted on September 14, it is an IJ (intraday): it contains the Balancing Offers for the day of September 14, 2023.

Example of file content :

```
SOUM;CodeBE;RefOffre1;;;1;;0;0;;;J:00:00;;J:06:00;;115,80;;;;;;;;;;
SOUM;CodeBE;RefOffre2;;;0;;0;0;;;J:06:00;;J:11:00;;115,80;;;;;;;;;;
SOUM;CodeBE;RefOffre3;;;1;;0;0;;;J:11:00;;J:14:00;;115,80;;;;;;;;;;comment;
SOUM;CodeBE;RefOffre4;;;0;;0;0;;;J:14:00;;J:17:00;;115,80;;;;;;;;;;
SOUM;CodeBE;RefOffre5;;;1;;0;0;;;J:17:00;;J:20:00;;115,80;;;;;;;;;; comment;
SOUM;CodeBE;RefOffre6;;;0;;0;0;;;J:20:00;;J:24:00;;115,80;;;;;;;;;;
SOUM;CodeBE;RefOffre7;;;1;;1;0;;;J:00:00;;J:24:00;;8004;;;;;;;;;;START UP PRICE;
<EOF>
```

4.1.2.4.1.2 Submission of a Modification of the Offer (MODI)

Any line in the file beginning with a "MODI" Action field is interpreted as an Offer Modification that has already been created. In other words, the offer reference on this BE and on the slot has already been submitted for creation. The syntax of the modification is identical to that of the creation, except for the action (in the case of a creation, put SOUM but in the case of a modification, put MODI as explain in this paragraph).

Example of an .offre file with an offer modification: Modification of RefOffre6.

Example of file content:

```
MODI;CodeBE;RefOffre6;;;0;;0;0;;;J:20:00;;J:24:00;;225,80;;;;;;;;;;Price modification;
<EOF>
```

4.1.2.4.1.3 Submission of a Cancellation of the Offer (ANNU)

Any line in the file beginning with a "ANNU" Action field is interpreted as the withdrawal of an existing Offer.

The syntax for cancellation is different from that for creation and modification. It contains only the first 3 fields and ends with a ";".

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Example of an .offre file with an offer cancellation: RefOffre6 cancellation.

Example of file content:

```
ANNU;CodeBE;RefOffre6;
<EOF>
```

NB: An offer is Createable, Modifiable and Cancelable in IJ if and only if the start time of the application slot is greater than or equal to the application gate closure + neutralization delay (DN=60 minutes) and if the offer is not yet activated.

4.1.3 Transmission of “CT PROD5” files: performance and technical constraints

This chapter details the file format for performance declarations and technical constraints of the thermal power plants (excluding hydraulic power plants), for early transmissions (at the times provided for in the Rules) and for sending at the network access deadline.

These files must be submitted by the Balancing Service Providers.

Syntactic controls

Syntax controls on contents and file names are performed as soon as they are loaded. Only the correct lines in the file are kept. Error and information messages help the Balancing Service Provider to identify errors in the file.

The entity can make corrections, as long as the gate closure has not run, by submitting a new file. This will cancel and replace the previous one. The entire file therefore needs to be provided the second time (with correct lines and with the incorrect lines corrected).

You cannot cancel a file upload.

Early file transmission (before the day ahead)

The bid usage condition files for the day ahead gate closure of the network access deadline can be sent up to 7 days in advance.

The format of the file for the power plants' performance and technical constraints declarations is the same regardless of the submission date.

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4.1.3.1 Details of the “CT_PROD5” file

Their formatting in “.csv” format is as follows:

CT_PROD_5_<PROVIDER>_<YYYYMMDD>_<hhmm>.csv

Where:

Field	Description	Value or format
<PROVIDER>	EIC of the Scheduling Agent	
<YYYYMMDD>	Data application date (year, month, day)	YYYYMMDD
<hhmm>	Time (hour, minute) of the early transmission gateway or the declaration gate closure	hhmm The authorised values are: • 1230 for 12:30 • 1630 for 16:30 (system access deadline)

For example:

CT_PROD_5_<PROVIDER>_20230927_1630.csv is a file uploaded at the network access deadline on 26 September 2023 containing the performance and technical constraints for 27 September 2023.

4.1.3.2 Contents of the “CT_PROD5” file

A - FILE HEADER

1st line:

File creation date;File creation time;

2nd line

Declaration validity date;

3rd line

REGION;BALANCING ENTITY;FUEL;PCN;PMD;MT;PRIM to PMin;PRIM to PInter;PRIM to PMax;SEC to PMin;SEC to PInter;SEC to PMax;Gradient Up;Gradient Down;DPN Group;DA (mn);CplPcMax(mn);Voltage Setting;Absorp. (MVAR);Provides. (MVAR);Unfit Load Tracking;Unfit Emergency Drop;Unfit Programmed Shutdown;Inavailable;Cause;Tests;Unfit Secondary Load Tracking;Pcmin;Pcomin;Test Code 1;Start Time ess1;End Time ess1;Power Data ess1;Test Code 2;Start Time ess2;End Time ess2;Power Data ess2;Test Code 3;Start Time ess3;End Time ess3;Power Data ess3;

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Where:

Field	Description	Value or format
File creation date	File creation date (Year Month Day)	Character string in YYYYMMDD format
File creation time	File creation time (Hour Minute Second)	Character string in hh:mm:ss format
Declaration validity date	Date (Year Month Day) to which the reported data relates	Character string in YYYYMMDD format

The 3rd line specifies the names of the fields contained in the file. All values and formats mentioned in the implementation guide are checked: in the event of non-application, the lines concerned are rejected.

B - FILE BODY

The file contains one line for each SE.

Region;EDP;Fuel;PCN;PMD;MT;RP to PMin;RP to PInter;RP to PMax;RS to PMin;RS to PInter;RS to PMax;Gradient Up;Gradient Down;DPN Group;DA;CplPcMax;Voltage Adjustment;Limit Absorption; Limit Supply;Unfit Load Tracking;Unfit Emergency Decrease; Unfit Stop Program;Unavailability;Cause Unavailability;Tests;Unfit Secondary during Load Tracking;Pcmin;Pc0min;Test Code 1;Test Start Time 1;Test End Time 1;Test Power Data 1;Test Power Data 2;Test Start Time 2;Test End Time 2;Test Power Data 2;Test Power Data 3;Test Start Time 3;Test End Time 3;Test Power Data 3;

Definition of fields:

Field	Description	Value or format
Region	Name of the RTE Regional Unit Electric Power System to which the SE is attached	The authorised values are: PARIS, NANTES, LILLE, MARSEILLE, LYON, TOULOUSE, NANCY
EDP	Scheduling Entity code provided by RTE	The existence and validity of the EDP are checked: if invalid in the repository, the line concerned is rejected.
Fuel	Type of fuel used by the SE	The authorised values are: G for gas, C for coal, N for nuclear, F for fuel oil, E for wind power, PV for photovoltaic
NCP	Net Continuous Power Value	Positive or zero integer value in MW
MAP	Maximum Available Power Value	Positive or zero integer value in MW
TM	Technical Minimum Value	Positive or zero integer value in MW
FCR at Pmin	Frequency containment reserve value at minimum power	Positive or zero integer value in MW

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Field	Description	Value or format
FCR at Pinter	Frequency containment reserve value at intermediary capacity	Positive or zero integer value in MW
FCR at Pmax	Frequency containment reserve value at maximum capacity	Positive or zero integer value in MW
AFRR at Pmin	Automatic Frequency Restoration Reserve value at minimum power	Positive or zero integer value in MW
AFRR at Pinter	Automatic Frequency Restoration Reserve value at intermediary capacity	Positive or zero integer value in MW
AFRR at Pmax	Automatic Frequency Restoration Reserve value at maximum capacity	Positive or zero integer value in MW
Gradient increase	Value of upward gradient	Strictly positive integer value in MW.min ⁻¹ or infinite value represented by an empty field (it is not permitted to fill the field with 0 value or a # symbol or the text "empty"). The value < 0 is not allowed, in which case the line concerned is rejected.
Gradient decrease	Value of the downward gradient	Strictly positive integer value in MW.min ⁻¹ or infinite value represented by an empty field (it is not permitted to fill the field with 0 value or a # symbol or the text "empty"). The value < 0 is not allowed, in which case the line concerned is rejected.
DPN Group	DPN experimental group	The authorised values are: FALSE, TRUE
DA	SE start time to reach the plant's highest active power value with frequency containment reserve supply	Positive or zero integer value in minutes
CplPcMax	Time between coupling and the plant reaching its highest active power value with frequency containment reserve supply.	Positive or zero integer value in minutes
Voltage adjustment	Ability to play a part in voltage adjustment.	The authorised values are: FIT, UNFIT, LIMIT
Absorption limit	Absorption limit reactive power	Positive or zero integer value in MVAR
Supply limit	Supply limit reactive power	Positive or zero integer value in MVAR
Unfit load tracking	Aptitude indicator of the SE to modulate	The authorised values are: FALSE, TRUE
Unfit emergency drop	Aptitude indicator of the SE to perform an emergency drop	The authorised values are: FALSE, TRUE
Unfit Shutdown Programme		The authorised values are: FALSE, TRUE
Unavailability	Possible unavailability date.	Standard (256 max) string or blank field

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Field	Description	Value or format
Unavailability cause	Possible reason for unavailability	Standard (256 max) string or blank field
Tests	Description of the test	Standard (10. 000 max) string or blank field
Secondary unfit at load tracking	Aptitude indicator of the SE to play a part in secondary adjustment during load variation	The authorised values are: FALSE, TRUE
Pcmin	Plant's lowest active power value, with frequency containment reserve supply.	Positive or zero integer value in MW. For a null value, this can be indicated by a 0 value or by a # symbol. The value < 0 is not allowed, in which case the line concerned is rejected.
Pcomin	Plant's lowest active power value, with frequency containment reserve and automatic frequency restoration reserve supply.	Positive or zero integer value in MW. For a null value, this can be indicated by a 0 value or by a # symbol. The value < 0 is not allowed, in which case the line concerned is rejected.

The following fields describe the tests (up to 3 tests). Each test is described using 4 fields:

Field	Description	Value or format
Test code	Test code	The authorised values are: - IMP: Requirement - MAP: maximum available power during the test - TM: technical minimum available during the test Or blank field
Test start time	Time (Hour Minutes) of test start	String in hh:mm format Or blank field
Test end time	Time (Hour Minutes) of test end	String in hh:mm format Or blank field
Test power value	Required or limiting power value	MW Or blank field

C - END OF FILE

The last line of the file must be: <EOF> (with chevrons)

D - SAMPLE FILE

CT_PROD_5_<PROVIDER>_20230306_1230.csv is a file uploaded to the gateway at 12:30 p.m. on 5 March 2023 and containing the performance and technical constraint declarations for two SEs – XXXXT and YYYT – for 6 March 2023.

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```

20230305;12:10:34;
20230306;
REGION;EDP;FUEL;PCN; PMD;MT;PRIM to PMin;PRIM to PInter;PRIM to
PMax;SEC to PMin;SEC to PInter;SEC to PMax;Gradient Up;Gradient
Down;DPN Group;DA (mn);CplPcMax(mn);Voltage Setting;Absorp.
(MVAR);Provides. (MVAR);Unfit Load Tracking;Unfit Emergency
Drop;Unfit Stop Prog;Inavailable;Cause;Tests;Unfit Secondary Load
Tracking;PCmin;PCOmin;Test Code 1;Start Time test1;End Time
test1;Power Data test1;Test Code 2;Start Time test2;End Time
test2;Power Data test2;Test Code 3;Start Time test3;End Time
test3;Power Data test3;
NANCY;XXXXXT;G;0;0;0;0;0;0;0;0;0;0;0;2;2;;0;172;;;;;;;;;;TR
UE;0;0;IMP;00:30;24:00;0;;;;;;;;;;
MARSEILLE;YYYYT;C;0;0;0;0;0;0;0;0;0;0;0;2;2;;0;247;;;;;;;;;;TRUE
;0;0;IMP;00:30;24:00;0;;;;;;;;;;
<EOF>

```

4.1.4 Information about the “CT PROD 1 and 2” and “CT CE” files

This chapter details the formats of the files containing the Bid Usage Conditions for sending at the network access deadline, as well as submission of the intraday changes.

The Bid Usage Condition files are different depending on whether the Balancing Entities for which bids are submitted are Injection Point type bids balancing entities on the PTS or the PDS offered as implicit bids or extraction point, exchange point or injection point type PDS on the distribution grids offered as explicit bids. They must be filed by the Balancing Service Providers.

The changes to the Bid Usage Conditions will be received:

- For extraction point, exchange point or injection point type PDS offered as explicit bids: according to the same format as the one used on the day ahead before the network access deadline.
- For injection point type PDS or PTS: according to the same format as the one used on the day ahead before the network access deadline.

Syntactic controls

Syntax controls on contents and file names are performed as soon as they are loaded. Only the correct lines in the file are kept. Error and information messages help the Balancing Service Provider to identify errors in the file.

The entity can make corrections, as long as the gate closure has not run, by submitting a new file. This will cancel and replace the previous one. The entire file therefore needs to be provided the second time (with correct lines and with the incorrect lines corrected).

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It is also possible to cancel a file upload as a whole as long as the gate closure has not run, by submitting a cancellation file. TOPASE then returns to the configuration before loading the unwanted file.

Early file transmission (before the day ahead)

The bid usage condition files for the day ahead gate closure of the network access deadline can be sent up to 7 days in advance.

The format of the Bid Usage Conditions file is identical regardless of the date of submission.

Early transmission of explicit bid usage condition redeclaration files is not possible. The first files can only be sent after the network access deadline.

Intraday transmission of bid condition usage files (for both implicit and explicit bids) is not possible before the network access deadline.

A Balancing Service Provider wishing to submit bids for injection point type Balancing Entities on the PTS or PDS offered as implicit bids must provide **both bid usage condition files described below prior to the network access deadline.**

4.1.5 Transmission of “CT_PROD1” files: implicit upwards bid

A Balancing Service Provider wishing to submit bids for extraction point, exchange point or injection point type Balancing Entities on the distribution offered as implicit bids must provide the file described below prior to the network access deadline.

Changes or submissions of Bid Usage Conditions sent to the Intra-Day gate closures must be sent in the same format as the file sent at the network access time limit on D-1. Changes to the Bid Usage Conditions must contain both redeclared and non-redeclared values within the neutralisation lead time.

To respect the Neutralisation Lead Time, when a Balancing Service Provider re-declares a CT_PROD1 file at an Intraday Gate Closure, and that file is accepted, the only data transmitted by TOPASE to downstream applications are the ones relating to time steps after the intraday Gate Closure Time increased by the Neutralisation Lead Time.

When the re-declared CT_PROD1 file is empty (only containing the “EOF” tag), it is totally accepted by TOPASE but the respect of the Neutralization Lead Time cannot be applied:

- If the last file submitted by an actor is empty, then at the Gate Closure Time TOPASE does not transmit anything for this actor to downstream applications.
- Else, TOPASE applies the respect of Neutralisation Lead Time to the last (non-empty) file.

Example :

- Before the system access deadline (16:30), an actor submits a CT_PROD1 file in which the Pmax line is as following:

Pmax;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

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- TOPASE accepts the submission and, at the gate closure time, transmits a file in which the Pmax line is as following:

Pmax;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

- At the intra-day gate closure of 00:30, the actor re-declares the CT_PROD1 file and the Pmax line of the re-declared file is as follow:

Pmax;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;.....

- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 1:30). In the file transmitted to downstream applications, the Pmax line is as follow:

Pmax;100;100;100;100;100;100;200;200;200;200;200;200;200;200;200;200;.....

- At the intra-day gate closure of 02:00, the actor re-declares the CT_PROD1 file and the Pmax line of the re-declared file is as follow:

Pmax;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;.....

- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 5 o'clock). In the file transmitted to downstream applications, the Pmax line is as follow:

Pmax; 100;100;100;100;100;100;200;200;200;200;200;200;500;500;500;500;.....

NB : no ack file will be transmitted from TOPASE to inform the BSP of the values of the times series that are changed or not. The BSP is informed through this implementation guide.

The entity can make corrections, as long as the gate closure has not run, by submitting a new file. This will cancel and replace the previous one. The entire file therefore needs to be provided the second time (with correct lines and with the incorrect lines corrected).

It is also possible to cancel a file upload as a whole as long as the gate closure has not run, by submitting a cancellation file. TOPASE then returns to the configuration before loading the unwanted file.

Once the network access deadline has passed, the files submitted are positioned at the first available appropriate gate.

Redeclaration files transmission

Early transmission of explicit bid usage condition redeclaration files is not possible. The first files can only be sent after the network access deadline.

In intraday, redeclaration gates are positioned on each quarter hourly interval of the day.

4.1.5.1 Details of the "CT_PROD_1" file

The file name is written as follows:

CT_PROD_1_<PROVIDER>_<YYYYMMDD>.csv

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Where:

Field	Description	Value or format
<PROVIDER>	European Identification Code of the provider	
<YYYYMMDD>	Date (year, month, day) of the time period to which the file is applicable	YYYYMMDD

For example:

If the file `CT_PROD_1_PROVIDER_20260313.csv` refers to a file filed prior to the network access deadline of 12 March 2023 and containing the Balancing Entity's injection point type upward Bid Usage Conditions on the PTS or PDS offered as implicit bids for 13 March 2023, it will be processed at the 16:30 gate for an application date of 13 March 2026.

If the file `CT_PROD_1_PROVIDER_20260314.csv` refers to a file filed before 22:59 on March 13th, 2026, and containing the Balancing Entity's injection point type upward Bid Usage Conditions on the PTS or PDS offered as implicit bids for 14 March 2023, it will be processed at the 23:00 gate for an application date of 14 March 2026.

4.1.5.1 Contents of the "CT_PROD_1" file

Their formatting in ".csv" format is as follows:

A- FILE HEADER

1st line:

File creation date;File creation time;

2nd line:

EIC of Balancing Entity;Declaration validity date;Declaration gate closure date;Declaration gate closure time;

Definition of fields:

Field	Description	Value or format
File creation date	File creation date (Year Month Day)	Character string in YYYYMMDD format
File creation time	File creation time (Hour Minute Second)	String in hhmss format
EIC of the BSP	European Identification Code	
Declaration validity date	Date (Year Month Day) to which the reported data relates	Character string in YYYYMMDD format
Declaration gate closure date	Date (Year Month Day) of the gate closure to which the file is submitted	Character string in YYYYMMDD format

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Field	Description	Value or format
Declaration gate closure time	Time (Minute Hour) of the Declaration gate closure	String equal to gate closure time. This field is not controlled by TOPASE, as the gate of processing is determined by TOPASE

B - FILE BODY

The file contains blocks of 4 lines for each Balancing Entity.

Upward Bid Usage Conditions are expected for any Balancing Entity that has at least one upwards bid other than a start-up bid in the Balancing bid's core features. This data establishes the bid usage conditions (including the preparation lead time) for the day for all upward bids other than the Balancing Entity's start-up bid.

In the specific case of Balancing Entities with start-up bids, a second set of 4 lines relating to the same Balancing Entity is submitted in the upward Bid Usage Conditions file:

- A first set of 4 lines sets out the bid usage conditions of the Balancing Entity's start-up bid (including the DMin and the DMO).
- The second set of 4 lines sets out the bit usage conditions for bids other than the Balancing Entity's start-up bid.

The files do not contain any empty fields, the absence of a particular indication for RTE is mentioned by the character #. If the expected values are not met, the block concerned is rejected.

1st line:

Balancing Entity's Identifier;Start-up indicator;Declaration type;Declaration comment;

2nd line:

RPF;RSFP;Duration;Maximum Energy;

3rd line:

Pmax;Pmax1;Pmax2;Pmax3;Pmax4;Pmax5;Pmax6;Pmax7;Pmax8;Pmax9;Pmax10;Pmax11;Pmax12;Pmax13;Pmax14;Pmax15;Pmax16;Pmax17;Pmax18;Pmax19;Pmax20;Pmax21;Pmax22;Pmax23;Pmax24;Pmax25;Pmax26;Pmax27;Pmax28;Pmax29;Pmax30;Pmax31;Pmax32;Pmax33;Pmax34;Pmax35;Pmax36;Pmax37;Pmax38;Pmax39;Pmax40;Pmax41;Pmax42;Pmax43;Pmax44;Pmax45;Pmax46;Pmax47;Pmax48;Pmax49;Pmax50;Pmax51;Pmax52;Pmax53;Pmax54;Pmax55;Pmax56;Pmax57;Pmax58;Pmax59;Pmax60;Pmax61;Pmax62;Pmax63;Pmax64;Pmax65;Pmax66;Pmax67;Pmax68;Pmax69;Pmax70;Pmax71;Pmax72;Pmax73;Pmax74;Pmax75;Pmax76;Pmax77;Pmax78;Pmax79;Pmax80;Pmax81;Pmax82;Pmax83;Pmax84;Pmax85;Pmax86;Pmax87;Pmax88;Pmax89;Pmax90;Pmax91;Pmax92;Pmax93;Pmax94;Pmax95;Pmax96;

4th line for start-up bids:

DMO;DMOd1;DMOd2;DMOd3;DMOd4;DMOd5;DMOd6;DMOd7;DMOd8;DMOd9;DMOd10;DMOd11;DMOd12;DMOd13;DMOd14;DMOd15;DMOd16;DMOd17;DMOd18;DMOd19;DMOd20;DMOd21;DMOd22;DMOd23;DMOd24;DMOd25;DMOd26;DMOd27;DMOd28;DMOd29;DMOd30;DMOd31;DMOd32;DMOd33;DMOd34;DMOd35;DMOd36;DMOd37;DMOd38;DMOd39;DMOd40;DMOd41;DMOd42;DMOd43;DMOd44;DMOd45;DMOd46;DMOd47;DMOd48;DMOd49;DMOd50;DMOd51;DMOd52;DMOd53;DMOd54;DMOd55;DMOd56;DMOd57;DMOd58;DMOd59;DMOd60;DMOd61;DMOd62;DMOd63;DMOd64;DMOd65;DMOd66;DMOd67;DMOd68;DMOd69;DMOd70;DMOd71;DMOd72;DMOd73;DMOd74;DMOd75;DMOd76;DMOd77;DMOd78;DMOd79;DMOd80;DMOd81;DMOd82;DMOd83;DMOd84;DMOd85;DMOd86;DMOd87;DMOd88;DMOd89;DMOd90;DMOd91;DMOd92;DMOd93;DMOd94;DMOd95;DMOd96;

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3;DMOd54;DMOd55;DMOd56;DMOd57;DMOd58;DMOd59;DMOd60;Pmmax61;DMOd62;DMOd63;DMOd64;DMOd65;DMOd66;DMOd67;DMOd68;DMOd69;DMOd70;DMOd71;DMOd72;DMOd73;DMOd74;DMOd75;max76;DMOd77;DMOd78;DMOd79;DMOd80;DMOd81;DMOd82;DMOd83;DMOd84;DMOd85;DMOd86;DMOd87;DMOd88;DMOd89;DMOd90;DMOd91;DMOd92;DMOd93;DMOd94;DMOd95;DMOd96;Commentaire DMO;

4th line for bids other than the start-up bid:

DP;DP1;DP2;DP3;DP4;DP5;DP6;DP7;DP8;DP9;DP10;DP11;DP12;DP13;DP14;DP15;DP16;DP17;DP18;DP19;DP20;DP21;DP22;DP23;DP24;DP25;DP26;DP27;DP28;DP29;DP30;DP31;DP32;DP33;DP34;DP35;DP36;DP37;DP38;DP39;DP40;DP41;DP42;DP43;DP44;DP45;DP46;DP47;DP48;DP49;DP50;DP51;DP52;DP53;DP54;DP55;DP56;DP57;DP58;DP59;DP60;Pmmax61;DP62;DP63;DP64;DP65;DP66;DP67;DP68;DP69;DP70;DP71;DP72;DP73;DP74;DP75;max76;DP77;DP78;DP79;DP80;DP81;DP82;DP83;DP84;DP85;DP86;DP87;DP88;DP89;DP90;DP91;DP92;DP93;DP94;DP95;DP96;Commentaire DP;

Definition of fields:

Field	Description	Value or format
Balancing Entity ID	Balancing Entity code provided by RTE	Standard string
Start-up indicator	Start-up bid identification indicator	Integer equal to 0 or 1 0: start-up pitch 1: start-up bid
Redeclaration type	Redeclaration type flag	Integer value equal to 0 A value of 0 identifies the declarations on the day ahead
Declaration comment	Comment associated with the declaration	Standard string 50 characters maximum This field may be empty
RPF	Capacity of the Balancing Entity to participate in the Primary Configuration when it is within the maximum available power. Applies only to thermal Balancing Entities participating in Primary Configuration.	Positive or zero integer value as MW if participating in Primary Configuration Character # if not participating in Primary Configuration.
SLFR	Capacity of the Balancing Entity to participate in the Secondary Configuration when it is within the maximum available power. Applies only to thermal Balancing Entities participating in Secondary Configuration.	Positive or zero integer value as MW if participating in Secondary Configuration Character # if not participating in Secondary Configuration.
Duration	Duration of the plateau that RTE must respect when the balancing activated by RTE creates a power level that is not provided for in the Forecast Dispatch Schedule.	Integer value in minutes Character # if no applicable minimum duration.

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Field	Description	Value or format
	For the resources on which start-up bids have been filed, this field must also be filled in.	
Maximum energy	Maximum programme energy (Forecast Dispatch Schedule + upwards adjustments) of a Balancing Entity during the day. See indication 1 below.	Integer value in MWh Character # if no maximum applicable energy.
Pmax	Label identifying the maximum power time series.	String equal to "Pmax" The field cannot be empty, otherwise the block will be rejected.
Pmax1 to Pmax 96	The maximum capacity that the Balancing Entity can deliver on each of the 96 quarter See indication 2 below.	Integer value in MW
DMO (Mobilisation lead time)	This label identifies the DMO time series.	String equal to "DMO" This field is only present for start-up bids (if start indicator = 1)
DMOd1 to DMOd96	Value of the full activation time on each of the 96 quarter This data corresponds to the time required to activate the start-up bid to change from 0 to Pmax or maximum available power.	Integer value in minutes These fields are only present for start-up bids (if start indicator = 1)
DMO comment	Comment associated with the start-up DMO.	Standard string 50 characters maximum This field is only present for start-up bids (if start indicator = 1) This field may be empty
DP	Label identifying the Preparation Lead Time series.	String equal to "DP" This field is only present for normal bids (if start-up indicator = 0)
DP1 to DP96	Value of the preparation lead time on each of the 96 quarter This data corresponds to the preparation lead time required to implement the bid. See indication 3 below. For pumped-storage hydroelectric power stations, for the 'turbining' Balancing Entity, this is the turbine activation time and for the 'pumping' Balancing Entity, it is the time taken to activate the pump.	Positive or zero integer in minutes This field is only present for normal bids (if start-up indicator = 0)
Preparation lead time comment	Comment associated with the preparation lead time	Standard string 50 characters maximum

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Field	Description	Value or format
		This field is only present for normal bids (if start-up indicator = 0) This field may be empty From date TP₃ onwards, this field may also be used to transmit the D_{OmaxH}, N_{bActH} and D_{NAH} data, in the following format: D_{OmaxH}:xxx,N_{bActH}:xxx,D_{NAH}:xxx If this format is followed, the fields can be swapped or omitted. The values are associated with positive integers.

NEW!

Indication 1 concerning the maximum energy field

For pumped-storage hydroelectric power stations:

- "Turbining" Balancing Entities: E_{max} is one of the parameters of upward bids.

It enables a usable volume or trough constraint on the pumped-storage hydroelectric power station to be expressed over the day without prejudging the dynamics of the way in which the valley is used.

The minimum upstream stock constraint is translated into a maximum turbinable energy value without pumping on the Balancing Entity for the period covered by the bid.

It cannot be guaranteed in all mobilisation configurations.

- "Pumping" Balancing Entity: here, the E_{max} is a parameter of downward bids.

It enables a usable volume or trough constraint on the pumped-storage hydroelectric power station to be expressed over the day without prejudging the dynamics of the way in which the valley is used.

The maximum upstream stock constraint is translated into a maximum pumpable energy value without turbining on the Balancing Entity for the period covered by the bid.

It cannot be guaranteed in all mobilisation configurations.

Indication 2 for the P_{max1} to P_{max96} field

For pumped-storage hydroelectric power stations:

- "Turbining" Balancing Entity: this is the maximum power value that can be supplied in a turbine on the generating units of the Balancing Entity considered, during the balancing period covered by the bid, taking into account the availability of the substation groups making it up over all or part of the balancing period.

It includes the power potentially reserved for Automatic Frequency Restoration or for Manual Frequency Restoration or complementary reserves.

It does not include network limitations or requirements contractually imposed with RTE.

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It is not guaranteed by the bidder that this power can effectively be mobilised at any time during the period.

- **"Pumping" Balancing Entity:** this is the maximum power value that can be used in a pump on the generating units of the Balancing Entity considered, during the balancing period covered by the bid, taking into account the availability of the substation groups making it up over all or part of the balancing period.

It includes the power potentially reserved for Automatic Frequency Restoration or for Manual Frequency Restoration or complementary reserves.

It does not include network limitations or requirements contractually imposed with RTE.

It is not guaranteed by the bidder that this power can effectively be mobilised at any time during the period.

By sign convention, a positive value is given.

Indication 3 regarding the interpretation of preparation lead times

Let's assume the following preparation lead times:

04h00-04h30	04h30-05h00	05h00-5h30	05h30-06h00	06h00-6h30	06h30-7h00	07h00-7h30	07h30-8h00
30	30	30	30	45	45	45	45

- If RTE issues a balancing order at 05:45 requesting an "immediate switch to (200,10,20)", the applicable preparation lead time will be the preparation lead time on the ranges [05:30, 06:00], namely 30 min.
- If RTE issues a balancing order at 06:15 requesting an "immediate switch to (200,10,20) until a new opinion is issued", the applicable preparation lead time will be the preparation lead time on the ranges [06:00, 06:30], namely 45 min.
- If RTE wishes to adjust this Balancing Entity (EDA) so that it is (200,10,20) at 06h00, RTE must issue a balancing order by 05:30 at the latest: "from 05:30 until 08:00 increase to (200,10,20)", the preparation lead time applied being that of the [05:30, 06:00] range.
- If RTE wishes to adjust this Balancing Entity (EDA) so that it is (200,10,20) at 06h35, RTE must issue a balancing order by 05:50 at the latest: "from 05:50 until 08:00 increase to (200,10,20)", the preparation lead time applied being that of the [06:30, 07:00] range.
- Extending a balancing operation is not subject to a preparation lead time.

C - END OF FILE

The last line of the file must be: <EOF> (with chevrons).

D - SAMPLE FILE

The `CT_PROD_1_INITIAL_PROVIDER_20230504_1630` file is uploaded at the system access deadline on 4 May 2023 and contains the upward bid usage conditions of two injection point EDA on the PTS or the EDA1 and EDA2 PDS offered in the form of implicit bids for 5 May 2023. EDA2 is covered by a start-up bid.

```

20230504;14:02:55;
PROVIDER;20230505;20230504;1630;
Balancing Entity 1;0;0;comment
10;20;15;2350;
Pmax;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;
;500;500;500;500;500;500;500;500;500;500;510;510;510;510;510;510;510;
;510;510;510;510;510;510;510;510;510;510;510;510;510;510;510;510;
;510;510;510;510;510;510;510;510;510;510;510;520;520;520;520;520;
;520;520;520;520;520;520;520;520;520;520;520;520;520;520;520;520;
;520;250;250;0;0;0;0;0;0;0;0;0;0;0;0;0;0;
DP;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
0;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
0;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
Balancing Entity 2;0;0;comment;
70;100;60;#;
Pmax;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;
;500;500;500;500;500;500;500;500;500;500;510;510;510;510;510;510;510;
;510;510;510;510;510;510;510;510;510;510;510;510;510;510;510;510;
;510;510;510;510;510;510;510;510;510;510;510;520;520;520;520;520;
;520;520;520;520;520;520;520;520;520;520;520;520;520;520;520;520;
;520;250;250;0;0;0;0;0;0;0;0;0;0;0;0;0;0;
DP;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
0;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
0;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;DP excluding start-up;
Balancing Entity 2;1;0;comment;
70;100;270;#;
Pmax;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;250;
;250;
DMO;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
0;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;
30;30;30;30;30;30;30;30;30;30;30;30;30;30;30;start-up FAT;
<EOF>
```

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4.1.6 Transmission of “CT_PROD2” files: implicit downwards bid

A Balancing Service Provider wishing to submit bids for extraction point, exchange point or injection point type Balancing Entities on the distribution offered as implicit bids must provide the file described below prior to the network access deadline.

Changes or submissions of Bid Usage Conditions sent to the Intra-Day gate closures must be sent in the same format as the file sent at the network access time limit on D-1. Changes to the Bid Usage Conditions must contain both redeclared and non-redeclared values within the neutralisation lead time.

To respect the Neutralisation Lead Time, when a Balancing Service Provider re-declares a CT_PROD2 file at an Intraday Gate Closure, and that file is accepted, the only data transmitted by TOPASE to downstream applications are the ones relating to time steps after the intraday Gate Closure Time increased by the Neutralisation Lead Time.

When the re-declared CT_PROD2 file is empty (only containing the “EOF” tag), it is totally accepted by TOPASE but the respect of the Neutralization Lead Time cannot be applied:

- If the last file submitted by an actor is empty, then at the Gate Closure Time TOPASE does not transmit anything for this actor to downstream applications.
- Else, TOPASE applies the respect of Neutralisation Lead Time to the last (non-empty) file.

Example :

- Before the system access deadline (16:30), an actor submits a CT_PROD2 file in which the Pmin line is as following:

Pmin;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

- TOPASE accepts the submission and, at the gate closure time, transmits a file in which the Pmin line is as following:

Pmin;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

- At the intra-day gate closure of 00:30, the actor re-declares the CT_PROD2 file and the Pmin line of the re-declared file is as follow:

Pmin;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;.....

- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 1:30). In the file transmitted to downstream applications, the Pmin line is as follow:

Pmin;100;100;100;100;100;100;200;200;200;200;200;200;200;200;200;.....

- At the intra-day gate closure of 02:00, the actor re-declares the CT_PROD2 file and the Pmin line of the re-declared file is as follow:

Pmin;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;.....

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- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 5 o'clock). In the file transmitted to downstream applications, the Pmin line is as follow:

Pmin; 100;100;100;100;100;100;200;200;200;200;200;200;500;500;500;500;500;.....

NB : no ack file will be transmitted from TOPASE to inform the BSP of the values of the times series that are changed or not. The BSP is informed through this implementation guide.

The entity can make corrections, as long as the gate closure has not run, by submitting a new file. This will cancel and replace the previous one. The entire file therefore needs to be provided the second time (with correct lines and with the incorrect lines corrected).

It is also possible to cancel a file upload as a whole as long as the gate closure has not run, by submitting a cancellation file. TOPASE then returns to the configuration before loading the unwanted file.

Once the network access deadline has passed, the files submitted are positioned at the first available appropriate gate.

Redeclaration files transmission

Early transmission of explicit bid usage condition redeclaration files is not possible. The first files can only be sent after the network access deadline.

In intraday, redeclaration gates are positioned on each quarter hourly interval of the day.

4.1.6.1 Details of the "CT_PROD2" file

The file name is written as follows:

CT_PROD_2_<PROVIDER>_<YYYYMMDD>.csv

Where:

Field	Description	Value or format
<PROVIDER>	European Identification Code of the provider	
<YYYYMMDD>	Date (year, month, day) of the time period to which the file is applicable	YYYYMMDD

For example:

If the file CT_PROD_2_PROVIDER_20260313.csv refers to a file filed prior to the network access deadline of 12 March 2023 and containing the Balancing Entity's injection point type downward Bid Usage Conditions on the PTS or PDS offered as implicit bids for 13 March 2023, it will be processed at the 16:30 gate for an application date of 13 March 2026.

If the file CT_PROD_2_PROVIDER_20260314.csv refers to a file filed before 22:59 on March 13th, 2026, and containing the Balancing Entity's injection point type downward Bid Usage Conditions on the PTS or PDS offered as implicit bids for 14 March 2023, it will be processed at the 23:00 gate for an application date of 14 March 2026.

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4.1.6.2 Contents of the "CT_PROD2" file

Its formatting in ".csv" format is as follows:

A- FILE HEADER

1st line:

File creation date;File creation time;

2nd line:

EIC of Balancing Entity;Declaration validity date;Declaration gate closure date;Declaration gate closure time;

Definition of fields:

Field	Description	Value or format
File creation date	File creation date (Year Month Day)	Character string in YYYYMMDD format
File creation time	File creation time (Hour Minute Second)	String in hhmmss format
EIC of the BSP	Identifier provided by RTE European Identification Code	
Declaration validity date	Date (Year Month Day) to which the reported data relates	Character string in YYYYMMDD format
Declaration gate closure date	Date (Year Month Day) of the gate closure to which the file is submitted	Character string in YYYYMMDD format
Declaration gate closure time	Time (Minute Hour) of the Declaration gate closure	String equal to gate closure time. This field is not controlled by TOPASE, as the gate of processing is determined by TOPASE

B - FILE BODY

The file contains 4 lines for each Balancing Entity.

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Downward Bid Usage Conditions are expected for any Balancing Entity that has at least one downwards bid in the Balancing bid's core features. This data establishes the bit usage conditions for the day for all of the Balancing Entity's downward bids.

The file does not contain any empty fields, the absence of a particular indication for RTE is mentioned by the character #. Otherwise TOPASE rejects all lines (4) of the BE concerned.

1st line:

Balancing Entity's Identifier;Declaration type;Declaration comment;

2nd line:

Duration;Minimum Energy;

3rd line:

Pmin;Pmin1;Pmin2;Pmin3;Pmin4;Pmin5;Pmin6;Pmin7;Pmin8;Pmin9;Pmin10;Pmin11;Pmin12;Pmin13;Pmin14;Pmin15;Pmin16;Pmin17;Pmin18;Pmin19;Pmin20;Pmin21;Pmin22;Pmin23;Pmin24;Pmin25;Pmin26;Pmin27;Pmin28;Pmin29;Pmin30;Pmin31;Pmin32;Pmin33;Pmin34;Pmin35;Pmin36;Pmin37;Pmin38;Pmin39;Pmin40;Pmin41;Pmin42;Pmin43;Pmin44;Pmin45;Pmin46;Pmin47;Pmin48;Pmin49;Pmin50;Pmin51;Pmin52;Pmin53;Pmin54;Pmin55;Pmin56;Pmin57;Pmin58;Pmin59;Pmin60;Pmin61;Pmin62;Pmin63;Pmin64;Pmin65;Pmin66;Pmin67;Pmin68;Pmin69;Pmin70;Pmin71;Pmin72;Pmin73;Pmin74;Pmin75;Pmin76;Pmin77;Pmin78;Pmin79;Pmin80;Pmin81;Pmin82;Pmin83;Pmin84;Pmin85;Pmin86;Pmin87;Pmin88;Pmin89;Pmin90;Pmin91;Pmin92;Pmin93;Pmin94;Pmin95;Pmin96;

4th line:

DP;DP1;DP2;DP3;DP4;DP5;DP6;DP7;DP8;DP9;DP10;DP11;DP12;DP13;DP14;DP15;DP16;DP17;DP18;DP19;DP20;DP21;DP22;DP23;DP24;DP25;DP26;DP27;DP28;DP29;DP30;DP31;DP32;DP33;DP34;DP35;DP36;DP37;DP38;DP39;DP40;DP41;DP42;DP43;DP44;DP45;DP46;DP47;DP48;DP49;DP50;DP51;DP52;DP53;DP54;DP55;DP56;DP57;DP58;DP59;DP60;DP61;DP62;DP63;DP64;DP65;DP66;DP67;DP68;DP69;DP70;DP71;DP72;DP73;DP74;DP75;DP76;DP77;DP78;DP79;DP80;DP81;DP82;DP83;DP84;DP85;DP86;DP87;DP88;DP89;DP90;DP91;DP92;DP93;DP94;DP95;DP96;Comment;

Definition of fields:

Field	Description	Value or format
Balancing Entity ID	Balancing Entity code provided by RTE	Standard string
Redeclaration type	Redeclaration type flag	Integer value equal to 0 A value of 0 identifies the declarations on the day ahead
Declaration comment	Comment associated with the declaration	Standard string 50 characters maximum

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Field	Description	Value or format
		This field may be empty
Duration	For pumped-storage hydroelectric power station type resources, this is the minimum usage period for the pumping bid. Note: for other resources, this data is already declared in the previous file.	Integer value in minutes Character # if no applicable minimum duration.
Minimum energy	This is the programme's minimum energy (Forecast Dispatch Schedule + downward balancing operations) of a Balancing Entity over the course of the day.	Integer value in MWh Character # if no minimum applicable energy.
Pmin	Designates the contents of the time series on the relevant line	String equal to "Pmin"
Pmin1 to Pmin96	The minimum power that the Balancing Entity can deliver on each of the 96 quarterly steps	Integer value in MW
DP	Label identifying the Preparation Lead Time series.	String equal to "DP"
DP1 to DP96	Value of the preparation lead time on each of the 96 quarterly steps This data corresponds to the preparation lead time required to implement the bid. See indication 1 below.	Positive or zero integer in minutes
Preparation lead time comment	Comment associated with the preparation lead time	Standard string 50 characters maximum This field may be empty From date TP ₃ onwards, this field may also be used to transmit the D _{OmaxB} , N _{bActB} and D _{NAB} data, in the following format: D _{OmaxB} :xxx,N _{bActB} :xxx,D _{NAB} :xxx If this format is followed, the fields can be swapped or omitted. The values are associated with positive integers.

NEW!

Indication 1 Interpretation of Preparation Lead Times

Let's assume the following preparation lead times:

04h00-04h30	04h30-05h00	05h00-05h30	05h30-06h00	06h00-06h30	06h30-07h00	07h00-07h30	07h30-08h00
30	30	30	30	45	45	45	45

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- If RTE issues a balancing order at 05:45 requesting an “immediate switch to (200, 10, 20)”, the applicable preparation lead time will be the preparation lead time on the ranges [05:30, 06:00[, namely 30 min.
- If RTE issues a balancing order at 06:15 requesting an “immediate switch to (200, 10, 20) until a new opinion is issued”, the applicable preparation lead time will be the preparation lead time on the ranges [06:00, 06:30[, namely 45 min.
- If RTE wishes to adjust this Balancing Entity (EDA) so that it is (200, 10, 20) at 06h00, RTE must issue a balancing order by 05:30 at the latest “from 05:30 until 08:00, fall to (200, 10, 20)”, the preparation lead time applied being that of the [05:30, 06:00[range.
- If RTE wishes to adjust this Balancing Entity (EDA) so that it is (200,10,20) at 06h35, RTE must issue a balancing order by 05:50 at the latest “from 05:50 until 08:00 fall to (200, 10, 20)”, the preparation lead time applied being that of the [06:30, 07:00[range.
- Extending a balancing operation is not subject to a preparation lead time.

C - END OF FILE

The last line of the file must be: <EOF> (with chevrons).

D - SAMPLE FILE

The CT_PROD_2_INITIAL_PROVIDER_20230504_1630 file refers to the file uploaded at the system access deadline on 4 May 2023 and containing the downward bid usage conditions of injection point type Balancing Entities on the PTS or PDS offered in the form of implicit bids for 5 May 2023.

[illegible]

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[illegible]

4.1.7 Transmitting “CT CE” files: Bid Usage Conditions of explicit bids

A Balancing Service Provider wishing to submit bids for extraction point, exchange point or injection point type Balancing Entities on the distribution offered as explicit bids must provide the file described below prior to the network access deadline.

Changes or submissions of Bid Usage Conditions sent to the Intra-Day gate closures must be sent in the same format as the file sent at the network access time limit on D-1. Changes to the Bid Usage Conditions must contain both redeclared and non-redeclared values within the neutralisation lead time.

To respect the Neutralisation Lead Time, when a Balancing Service Provider re-declares a CT_CE file at an Intraday Gate Closure, and that file is accepted, the only data transmitted by TOPASE to downstream applications are the ones relating to time steps after the intraday Gate Closure Time increased by the Neutralisation Lead Time.

When the re-declared CT_CE file is empty (only containing the "EOF" tag), it is totally accepted by TOPASE but the respect of the Neutralization Lead Time cannot be applied:

- If the last file submitted by an actor is empty, then at the Gate Closure Time TOPASE does not transmit anything for this actor to downstream applications.
- Else, TOPASE applies the respect of Neutralisation Lead Time to the last (non-empty)

Example :

- Before the system access deadline (16:30), an actor submits a CT_CE file in which the PmaxH line is as following:

PmaxH;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

- TOPASE accepts the submission and, at the gate closure time, transmits a file in which the PmaxH line is as following:

PmaxH;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;100;.....

- At the intra-day gate closure of 00:30, the actor re-declares the CT_CE file and the PmaxH line of the re-declared file is as follow:

PmaxH;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;200;.....

- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 1:30). In the file transmitted to downstream applications, the PmaxH line is as follow;

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PmaxH;100;100;100;100;100;100;200;200;200;200;200;200;200;200;200;200;200;.....

- At the intra-day gate closure of 02:00, the actor re-declares the CT_CE file and the PmaxH line of the re-declared file is as follow:

PmaxH;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;500;.....

- TOPASE accepts changes to time steps after the gate closure time augmented by an hour (i.e. 5 o'clock). In the file transmitted to downstream applications, the PmaxH line is as follow:

PmaxH; 100;100;100;100;100;100;200;200;200;200;200;200;200;500;500;500;500;.....

NB : no ack file will be transmitted from TOPASE to inform the BSP of the values of the times series that are changed or not. The BSP is informed through this implementation guide.

There are 17 lines for each entity, describing the bid conditions usages of all upwards and downwards bids submitted by the entity for the day. This 17-lines block is unique for each entity.

The entity can make corrections, as long as the gate closure has not run, by submitting a new file. This will cancel and replace the previous one. The entire file therefore needs to be provided the second time (with correct lines and with the incorrect lines corrected).

It is also possible to cancel a file upload as a whole as long as the gate closure has not run, by submitting a cancellation file. TOPASE then returns to the configuration before loading the unwanted file.

Once the network access deadline has passed, the files submitted are positioned at the first available appropriate gate.

Redeclaration files transmission

Early transmission of explicit bid usage condition redeclaration files is not possible. The first files can only be sent after the network access deadline.

Submitted CT_CE files are positioned at the first available appropriate gate.

In intraday, redeclaration gates are positioned on each quarter hourly interval of the day.

4.1.7.1 Details of the "CT_CE" file

The file name is written as follows:

CT_CE_<PROVIDER>_<YYYYMMDD>.csv

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Field	Description	Description
<PROVIDER>	European Identification Code of the Balancing Service Provider	
<YYYYMMDD>	Date (year, month, day) of the Balancing Period covered by the file's Bid Usage Conditions	YYYYMMDD

In the file nomenclature, the mentioned date is the application date on which apply the usage conditions.

Examples:

If CT_CE_PROVIDER_20260313.csv, containing the upward and downward bid usage conditions for Extraction point, Exchange point or Injection point type Balancing Entities on PDS offered in the form of explicit bids for 13 March 2023, is a file uploaded before the network access deadline of 12 March 2026, it will be taken into account at the 16:30 gate for the application day of 13 March 2026.

If CT_CE_PROVIDER_20260314.csv, containing redeclarations of upward and downward bid usage conditions for Extraction point, Exchange point or Injection point type Balancing Entities on PDS offered in the form of explicit bids for 14 March 2026, is a file uploaded before 22h59 on 13 March 2023, it will be taken into account at the 23:00 gate for the application day of 14 March 2026.

4.1.7.2 Contents of the "CT_CE" file

A - FILE BODY

The formatting of the file, in .csv format, is as follows:

Balancing Entity_Code;Val;

PmaxH ;Val1;...;Val96;

PminH ;Val1;...;Val96;

PmaxB ;Val1;...;Val96;

PminB ;Val1;...;Val96;

DOmaxH;Val ;

DOminH ;Val;

DOmaxB;Val ;

DOminB;Val ;

EmaxH;Val ;

EmaxB;Val ;

DMOH;Val1 ;... ;Val96;

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DMOB;Val1 ;... ;Val96;

NbActH;Val ;

NbActB;Val ;

ComOH;.... ;

ComOB;.... ;

Where:

Field	Description	Value or format
Balancing Entity-Code	Balancing Entity code provided by RTE	
PmaxH	Time series of the 96 maximum power offered values upwards on the Balancing Entity. For the Extraction Points, this is the maximum curtailment capacity.	Each value in MW, 4 digits max, positive integer.
PminH	Time series of the 96 minimum power values offered upwards on the Balancing Entity. For the Extraction Points, this is the minimum curtailment power.	Each value in MW and $\leq P_{maxH}$, 4 digits max, positive integer.
PmaxB	Time series of the 96 maximum power offered values downwards on the Balancing Entity. For the Extraction Points, this is the maximum additional consumption capacity.	Each value in MW, 4 digits max, negative integer.
PminB	Time series of the 96 minimum power offered values downwards on the Balancing Entity. For the Extraction Points, this is the minimum additional consumption power.	Each value in MW and $\leq P_{maxB}$ (in absolute value), 4 digits max, negative integer.
DOmaxH	Maximum upwards time to be respected by RTE per activation range of upward bids.	Integer in minutes, ≥ 0 and ≤ 1440 , or empty field.
DOminH	Minimum upwards time to be respected by RTE per activation range of upward bids.	Integer in minutes, ≥ 0 and ≤ 1440 , or empty field. If DOminH and DOmaxH are not empty, then DOminH must be less than or equal to DOmaxH If the application date is not an "ECOWATT rouge" date and all $P_{maxH} < 10$ MW, then DOminH must be less than 60 min
DOmaxB	Maximum downwards time to be respected by RTE per activation range of downward bids.	Integer in minutes, ≥ 0 and ≤ 1440 , or empty field.

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Field	Description	Value or format
DOminB	Minimum downwards time to be respected by RTE per activation range of downward bids.	Integer in minutes, ≥ 0 and ≤ 1440 , or empty field. If DOminB and DOmaxB are not empty, then DOminB must be less than or equal to DOmaxB If the application date is not an “ECOWATT rouge” date and all PmaxB < 10 MW, then DOminB must be less than 60 min
EmaxH	Maximum upwards energy offered in balancing by the Balancing Entity during the day.	Integer strictly greater than zero in MWh, or blank field
EmaxB	Maximum downwards energy offered in balancing by the Balancing Entity during the day.	Integer strictly greater than zero in MWh, or blank field
DMOH	Time series of the 96 upwards Full Activation Time values up to activate PmaxUpwards This is the time required for operations to activate the upward bid.	integer in minutes ≥ 0 , or empty field. If the application date is not an “ECOWATT rouge” date and all PmaxB < 10 MW, then DMOH must be less than 30 min for the whole day
DMOB	Time series of the 96 downwards Full Activation Time values up to activate Pmaxdownwards This is the time required for operations to activate the downward bid.	integer in minutes ≥ 0 , or empty field. If the application date is not an “ECOWATT rouge” date and all PmaxB < 10 MW, then DMOH must be less than 30 min for the whole day
NbActH	Maximum number of upward activations to comply with by RTE	An integer greater than zero or an empty field.
NbActB	Maximum number of downwards activations to comply with by RTE	Integer strictly greater than zero or empty field.
ComOH	Comments related to upward bids or neutralisation leadtime between activation (DNA)	50 characters maximum or integer in minutes ≥ 0 (for DNA). From date TP ₃ onwards, this field may also be used to transmit the DNAH data, in the following format: DNAH:xxx, <comment>

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Field	Description	Value or format
		If provided, the DNA must be at the beginning of the field. The associated value is a positive integer.
ComOB	Comments related to downward bids or neutralisation leadtime between activation (DNA)	50 characters maximum or integer in minutes ≥ 0 (for DNA). From date TP ₃ onwards, this field may also be used to transmit the DNAB data, in the following format: DNAB:xxx, <comment> If provided, the DNA must be at the beginning of the field. The associated value is a positive integer.

NEW!

Additional controls have been added to verify data consistency of CT_CE :

- Maximal upwards energy offered in balancing for the day : if "DOminH" and "EmaxH" are both non empty and non-zero, then the product DOminH x av(PminH) must be strictly lower than EmaxH for the time period corresponding to the neutralisation period.
- Maximal downwards energy offered in balancing for the day : if "DOminB" and "EmaxB" are both non empty and non-zero, then the product DOminH x av(PminB) must be strictly lower than EmaxB for the time period corresponding to the neutralisation period.

Note 1: If the Balancing Service Provider wishes to define complementary Bid Usage Conditions relative to those indicated in the previous fields, it must mention them in the "ComOH" and "ComOB" fields.

Note 2: A Balancing Service Provider wishing to impose a single balancing power will have to fill in the file with Pmax=Pmin. If Pmax differs from Pmin, RTE considers that it can call any balancing value between Pmin and Pmax.

Guidance on interpretation of DMO

Let's assume the following DMO values:

04h00-04h30	04h30-05h00	05h00-05h30	05h30-06h00	06h00-06h30	06h30-07h00	07h00-07h30	07h30-08h00
30	30	30	30	45	45	45	45

[illegible]

4.1.8 Transmission of cancellation files before the gate closure

It is possible to cancel a bid usage conditions file being uploaded as a whole as long as the gate closure has not run, by submitting a cancellation file. TOPASE then returns to the configuration before loading the unwanted file.

This applies to all types of bid usage conditions files:

Implicit bids upwards: CT PROD 1

Implicit bids downwards: CT PROD 2

Explicit bids: CT CE

By sending several cancellation files, you can trace back the intermediate versions that have been successively submitted for the gate closure.

NB: CT_PROD_5 is cancelled by a new deposit because the last deposit overwrites the previous one. You can therefore cancel a file by depositing a new, empty file (containing only the EOF).

4.1.8.1 Details of the cancellation file

The name of the cancellation file is made up of the name of the file to be cancelled, preceded by "ANNU_":

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[ANNU_CT_PROD_1_INITIAL_<ACTEUR>_<AAAAMMJJ>.csv](#)
[ANNU_CT_PROD_2_INITIAL_<ACTEUR>_<AAAAMMJJ>.csv](#)
[ANNU_CT_CE_<ACTEUR>_<AAAAMMJJ>.csv](#)

Examples:

ANNU_CT_PROD_1_ACTEUR_20260715.csv refers to the file uploaded before the system access deadline on 15 July 2023 cancelling the last version of the file *CT_PROD_1_PROVIDER_20230715.csv* file submitted to the day ahead gate closure on 15 July 2023.

ANNU_CT_PROD_2_PROVIDER_20230715.csv refers to the file uploaded before the system access deadline on 15 July 2023 cancelling the last version of the file *CT_PROD_2_PROVIDER_20230715.csv* file submitted to the day ahead gate closure on 15 July 2023.

ANNU_CT_CE_PROVIDER_20260808.csv refers to the file uploaded before the network access deadline on 7 August 2026 cancelling the last version of the file *CT_CE_PROVIDER_20260808.csv* file submitted to the day ahead gate closure on 7 August 2026.

ANNU_CT_CE_PROVIDER_20260809.csv refers to the file uploaded before the intraday gate closure on 9 August 2026 at 3 PM cancelling the last version of the file *CT_CE_PROVIDER_20260809.csv* file submitted for this gate.

4.1.8.2 Contents of the cancellation file

A - FILE BODY

The file contains a single line with a semi-colon at the end:
ANNULATION;

B - END OF FILE

The last line of the file must be: <EOF> (with chevrons).

C - SAMPLE FILE

The content is the same for all cancellation files:

ANNULATION;
 <EOF>

4.2 UI Web interface for specific bids

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The access URL to the TOPASE Web HMI is given in paragraph 2.4 and the screens and main functionalities of the TOPASE Web HMI are described in the reference document [7].

The Web HMI provides the balancing service provider with the following functionalities via his web browser (these functionalities will be detailed in the paragraphs below):

1. Submit an offer document, CT_PROD_1 to 5, a CT_CE
2. Consult the exchange log (list of documents transmitted, status of the exchange) and download the documents and the corresponding ACK in csv format.
3. Consult a submitted offer, consult the result of the checks and the list of possible errors detected.
4. Enter a specific offer subject to the same checks as when submitting via M2M channels or HMI loading.
5. Modify and delete a submitted offer in compliance with the rules (compliance with the DN and activation status)

4.2.1 Submit a file

The TOPASE Web HMI includes a 'Document filing' tab which allows the balancing service provider to manually submit one or more documents of the specific process and to load these documents in the TOPASE application.

4.2.2 Consult the exchange log

The TOPASE Web HMI includes a tab called 'Exchange log' which allows the balancing service provider to consult the list of its exchanges, with the possibility of going back in time.

This log is common to all types of processes managed in TOPASE (for example: participation in programming, other processes identified in this document).

This log presents the main data associated with each exchange, namely:

- the date and time of the exchange;
- the date and time of application of the document;
- the process (SPECIFIC for specific offers and their CT-CUO);
- the sender and recipient of the exchange;
- the type of exchange (e.g., specific offer submission);
- the title of the document;
- the status of the exchange (OK / KO);
- the details of the error encountered, if the status is KO (the error messages displayed in this column are consistent with the messages sent in the ACK);
- action buttons to open and/or download the document and the corresponding ACK.

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A search banner allows the user to filter the exchanges on all these data. Sorting is possible on the columns. A button allows to download the documents submitted by the BSPs and the ACKs sent by RTE in csv format.

4.2.3 Consult the log of specific offers

The TOPASE Web HMI includes in the 'Logs' menu a 'Specific offers' tab which allows the BSPs to consult the list of its submitted offers.

This log presents the main data associated with each offer, namely:

- the validity period of the offer;
- the issuer;
- the balancing entity concerned;
- the reference of the offer;
- the direction of the increase or decrease;
- the start-up offer indicator (yes/no);
- the price/fixed price of the offer.

A search box allows the user to filter the offers displayed in this screen. Sorting is possible on the columns.

4.2.4 Enter a specific offer

From the specific offer log, by using the icon (+) located on the top right, the balancing service provider can open a form to enter a new offer.

This form contains the following fields:

- the application date;
- the reference;
- the starting index;
- the validity period (the 6 time slots);
- the direction of the offer;
- the price/lump sum of the offer;
- a comment.

Then, the user can validate his entry for submission, or cancel and abandon the entry.

4.2.5 Modify a specific offer

From the log of specific offers, the BSP can modify a single offer displayed.

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To do this, simply click on the pencil icon in the action column, which will then give access to a form containing the information of the offer to be modified.

The BSP can modify:

- the price/fixed price of the offer ;
- the comment.

The entry must be validated for the modifications to be considered, otherwise the BSP can cancel and abandon the modifications.

In case of error, a pop-up informs the user.

4.2.6 Delete a specific offer

From the log of specific offers, the BSP can modify a single offer displayed.

To do so, simply click on the trash can icon in the action column on the line of the offer.

A pop-up window will the user to confirm or cancel the request to delete the offer.

4.3 Machine to Machine interface for specific bids

4.3.1 The different URLs in pre-production

The different URLs that are useful in the bid filing process are listed below. They are described in more detail in the following paragraphs.

For APIs

Submission of bids or technical constraints:

- ⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers>

Consultation of the log message:

- ⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers/messageLogs>

20230803 17:25;E;Fichier: ANNU_CT_PROD_2 _ACTEUR_20230808.txt non recognised and rejected.

20230803 15:33;E;Fichier: ANNU_CT_PROD_2 _ ACTEUR _20230808.txt non recognised and rejected.

4.3.2 Filing of documents in https

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The api/documents/specific-offers API enables BSP to submit their bids and the technical constraints to RTE.

4.3.2.1 Location

URL:

<https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers>

4.3.2.2 Category

Format: multipart/form-data;boundary=UUID

UUID is a random character string that must not be present in the submitted file, and its absence may cause error 401.

4.3.2.3 How the API works

General principles:

The API follows the following operating principle:

- Check for caller authentication and authorisations via an upstream PKI certificate
- Send application returns based on processing

4.3.2.4 Resources

Name	Method	URI
Sending a file by API	POST	api/documents/specific-offers/

api/documents/specific-offers POST

This service allows a csv type "file" to be uploaded onto RTE's IT system

4.3.2.5 Settings

NAME	CARD.	DESCRIPTION	TYPE	VALUES	/
Settings				FORMAT	
file	1	Requested Document Type	CSV		

EXAMPLES:

<https://secure-apps-dev.services.rte-france.com/topase-api/api/v1/documents/specific-offers>

```
-H 'Content-Type: multipart/form-data; boundary=<UUID>' -F 'file=@CT_PROD_1_acteur_20220726.csv'
```

<https://secure-apps-dev.services.rte-france.com/topase-api/api/v1/documents/specific-offers>

```
-H 'Content-Type: multipart/form-data; boundary=<UUID>' -F 'file=@acteur20220726.offre'
```

Headers :

```
Content-Type : multipart/form-data;boundary=<UUID>
```

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Body:

CSV file with semicolon separator

4.3.2.6 Response

http codes:

HTTP CODES	Cases
200	Document received by TOPASE
400	Syntax error
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

Content:

For a 200 response, the body contains a text indicating, depending on compliance with the expected file naming rules:

- Acceptance of the submitted file: "Fichier <filename> pris en compte"
- Rejection of the submitted file: "Fichier <filename> non reconnu et rejeté"

4.3.3 The various production URLs

The various production URLs used in the specific offer submission process are listed below:

For APIs

Submission of offers or technical constraints:

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers>

Viewing the daily log message:

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers/messageLogs?applicationDate=AAAA-MM-JJ>

4.4 Message log recovery in https

4.4.1.1 Resources

Name	Method	URI
Consultation of control results by API	GET	http://.../api/documents/specific-offers/messageLogs?applicationDate=AAAA-MM-JJ

This service allows you to consult the results of the controls carried out by the RTE IT SYSTEM following submission of a bid or technical constraints. The response is a CSV type text document.

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4.4.1.2 Settings

NAME	CARD.	DESCRIPTION	TYPE	VALUES / FORMAT
Settings				
Date	1	Date of the day of the results to be retrieved		YYYY-MM-DD

4.4.1.3 Response

http codes:

HTTP CODES	Cases
200	Success
400	Syntax error
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

Content:

The body contains a report type CSV file.

The report will inform the caller of the result of the controls carried out by the TOPASE application following the submission of a bid document or technical constraints. The ACK will indicate any errors detected at the document or bid level.

Structure of downloaded file content :

Exchange timestamp ; Severity ; Error label ; Date ; File type

Description of the content structure of the downloaded file :

Field	Description
Exchange timestamp	Format of the exchange timestamp : YYYYMMDD HH:MM
Severity	Format of the severity : - I : For information messages - file processing status (number of lines accepted, rejected). - E : For error messages (file rejected, line rejected).
Error label	Fichier : "File name" , Ligne : "Line number" , Colonne : "Column number" - "Error message".
Date	Format of the date : YYYYMMDD
File type	Format of the concerned file : - Offers - CT_PROD_5 - CT_PROD_2 - CT_PROD_1 - CT_CE

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	- DCT - ANNU_xxxx
--	--

List of messages of MessageLog (cf. error label):

Severity	Message
E	<i>Fichier : **File name** - Fichier vide ou inexistant.</i>
	<i>Fichier : **File name** - Nom de fichier incorrect, format attendu : '<ACTEUR><AAAAAMMJJ>.offre'.</i>
	<i>Fichier : **File name** - Nom de fichier incorrect, nom du participant non reconnu.</i>
	<i>Fichier : **File name** - La date de validité **Validity date** est dans le passé ou postérieure au jour courant + 7 jours.</i>
	<i>Fichier : **File name** - Nom de fichier incorrect, date de validité invalide.</i>
	<i>Fichier : **File name** n'a pas été reçu intégralement, certaines lignes ne possèdent pas le nombre de champs requis. Ce fichier est à soumettre une nouvelle fois.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Le format de la ligne est incorrect car le nombre de colonnes est incorrect.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - Les types et les formats des champs sont incorrects.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Le nombre de champs de l'offre **Ref-Offer** sur l'EDA **BE name** est incorrect.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : Le format pour une annulation est invalide.</i>
	<i>Fichier : **File name** - toutes les offres soumises sur l'EDA **BE name** sont rejetées.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : Format numérique incorrect pour le champ **Column number**.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'indice de démarrage est mal renseigné ou absent.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'heure de début de validité est mal renseignée pour une offre de démarrage.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Le code action **Column value** est invalide.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'EDA n'est pas renseignée.</i>

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	<i>Fichier : **File name**, Ligne **Line number** - L'heure de fin de validité est mal renseignée pour une offre de démarrage.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'EDA **BE name** n'existe pas.</i>
	<i>Fichier : **File name**, Ligne **Line number** - **BE name** n'est pas un ELU actif ou EDA.</i>
	<i>Fichier : **File name**, Ligne **Line number** - La référence de l'offre sur l'EDA **BE name** est trop longue.</i>
	<i>Fichier : **File name**, Ligne **Line number** - La référence de l'offre sur l'EDA **BE name** n'est pas renseignée.</i>
	<i>Fichier : **File name**, Ligne **Line number** - La référence de l'offre sur l'EDA **BE name** contient au moins un caractère invalide.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - L'offre **Ref-Offer** sur l'EDA **BE name** est présente plusieurs fois dans le fichier.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'heure de fin ou début de validité est mal renseignée.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La logique de l'offre **Ref-Offer** sur l'EDA **BE name** à la hausse/à la baisse est invalide.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'offre **Ref-Offer** sur l'EDA **BE name** existe déjà. Création impossible.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'offre **Ref-Offer** sur l'EDA **BE name** a déjà été modifiée ou annulée.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'offre **Ref-Offer** sur l'EDA **BE name** n'existe pas. Modification ou annulation impossible.</i>
	<i>Fichier : **File name**, Lignes: **Line number**, EDA **BE name**, plage **Time slot** : 2 offres normales de sens opposés OU 1 offre de démarrage à la hausse maximum.</i>
	<i>Fichier : **File name**, Ligne **Line number** - L'offre **Ref-Offer** sur l'EDA **BE name** est une offre de démarrage : elle doit être à la hausse.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - Offre de démarrage **Ref-Offer** sur l'EDA **BE name** : Le prix est supérieur à **Price limit** Euros.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : Le prix est supérieur à 9999Euros/MWh ou inférieur à -9999Euros/MWh.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : Le prix est négatif.</i>

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	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : La période de validité doit correspondre à une plage.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : Le prix est supérieur à **Max price limit** Euros/MWh ou inférieur à **Min price limit** Euros/MWh.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - Offre à la hausse **Ref-Offer** sur l'EDA **BE name** : Le prix doit être un entier positif.</i>
	<i>Fichier : **File name**, Ligne **Line number** - Offre **Ref-Offer** sur l'EDA **BE name** : La validité de l'offre doit être supérieure ou égale au guichet + DN.</i>
	<i>Fichier : **File name**, Ligne **Line number** - La colonne **Column number** n'est pas renseignée. Champ obligatoire.</i>
	<i>Fichier : **File name** - Nom de l'acteur incorrect.</i>
	<i>Fichier : **File name** - Format de date invalide.</i>
	<i>Fichier : **File name** - Seuls les fichiers soumis pour le premier guichet J-1 (INI) peuvent être envoyés par anticipation.</i>
	<i>Fichier : **File name** - Fichier rejeté (soumis le jour courant).</i>
	<i>Fichier : **File name** n'a pas été reçu intégralement, aucune offre n'a été intégrée. Ce fichier est à soumettre une nouvelle fois.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ EDA n'est pas reconnue comme appartenant à l'acteur.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être "H" ou "B" .</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière ≥ 0 ou "# ".</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière positive.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière ≥ 0 pour le type d'offre= "H" ou "# " pour type d'offre= "B" .</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière < 0 ou ≥ 0 ou "# ".</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être < 0 ou > 0 (-9998 à +9999) avec point décimal.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière (< 0 ou ≥ 0) ou "# ".</i>

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	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être numérique ≥ 0 et ≤ 1440 ou vide.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être entière ≥ 0 ou vide.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être alphanumérique, 50 caractères maxi.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La ligne doit se terminer par un point-virgule.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number**, Valeur renseignée : **Column value** - Les valeurs autorisées sont : PARIS, NANTES, LILLE, MARSEILLE, LYON, TOULOUSE, NANCY.</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ EDP n'est pas reconnue comme appartenant à l'acteur."),</i>
	<i>Fichier : **File name**, Ligne **Line number**, Colonne **Column number**, Valeur renseignée : **Column value** - Les valeurs autorisées sont : G pour gaz, C pour charbon, N pour nucléaire, F pour fioul.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être un entier supérieur ou égal à zéro (0), ou non renseigné (représenté par # ou vide).</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être au format hh:mm.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ doit être un entier positif ou négatif.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - L'EDA **BE name** n'est pas offerte en implicite de type injection.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - L'EDP **BE name** n'appartient pas à la filière thermique.</i>
	<i>Fichier: **File name** - Fichier rejeté (la date de la 2ème ligne de l'en-tête doit être égale à la date contenue dans le nom du fichier).</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - La valeur du champ ne peut être que VRAI ou FAUX (la casse étant ignorée).</i>
	<i>Fichier: **File name**, Ligne **Line number** - L'essai **Test number** est rejeté (format attendu : heures HH:MM, puissance entière).</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - L'EDP n'est pas renseignée.</i>
	<i>Fichier: **File name** - une erreur technique est survenue lors de la persistance du fichier.</i>

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	<i>Fichier: **File name**, Ligne **Line number** - L'offre **Ref-Offer** sur l'EDA **BE name** est acceptée ou activée, elle ne peut plus être modifiée ou annulée.</i>
	<i>Fichier: **File name** - Non respect des délais de transmission.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - Offre de démarrage **Ref-Offer** sur l'EDA **BE name** : Le prix doit être un entier positif.</i>
	<i>Fichier: **File name**, Ligne **Line number**, Colonne **Column number** - Le slot "00h - 24h " n'est réservé qu'aux offres de démarrage.</i>
I	<i>Fichier: **File name** de type : **File type** chargé , **Number of lines taken into account** lignes prises en compte , **Number of rejected lines** lignes rejetées.</i>

Examples :

20230522 09:30;I;Fichier: acteur20230522_2.offre - Fichier d'offres chargé : 1 offres soumises, 0 offres modifiées, 0 offres annulées.;20230522;Offres;
20230522 12:30;E;Fichier : CT_PROD_2_INITIAL_acteur_20230513_1630.csv : Format de date invalide.;20230513;CT_PROD_2;

4.5 Emergency mode

4.5.1 Emergency mode for balancing mechanism

In the event of scheduled maintenance or unforeseen unavailability of the RTE information system, and when technical and operational conditions allow, an emergency mode is set up by RTE.

The BSP then sends RTE his Offer and Offer Usage Conditions/Technical Constraints files by e-mail.

This emergency mode may only be used by BSP at RTE's explicit request, or with RTE's explicit agreement. This backup mode may only be used for the D-1 gate of the System Access Deadline (4:30pm), and may under no circumstances be used for an intraday gate.

- **RTE e-mail addresses used for information and file exchanges in "balancing" emergency mode**

If RTE sets up an emergency mode, the two e-mail addresses to be used by the BSP for sending files in this chapter are:

RESCUE-SERVICE@RTE-FRANCE.COM

and in copy :

rte-cosep-tr-eod-j-1@rte-france.com

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To ensure proper operation of the emergency mode, the first e-mail address must be the recipient of the message, with the second address as a copy of the message.

These e-mail addresses are used by RTE to send the information described in this chapter.

For a BSP, RTE only takes into account messages from email addresses explicitly identified in the BSP Participation Agreement as authorized to send data to RTE. On D-1, only messages sent by the "D-1 Operational Contact (nominal and emergency mode)" are considered. Messages sent by RTE in emergency mode are sent to the above-mentioned addresses. In emergency mode, any change to the list of authorized messaging addresses is only taken into account by RTE 10 days after notification to RTE.

4.5.2 File nomenclature and format

The nomenclature and format of Offer files and Offer Usage Conditions/Technical Constraints files are identical to those used in nominal mode and described in this chapter 4.

Files sent by the BSP must not be zipped.

4.5.3 Subject of e-mails sent by balancing actors to RTE

The subject line of the message must expressly contain only the words:

« AJUSTEMENT JMOINS1 »

5 Transmission of Forecast Dispatch Schedules (APs) by Scheduling Agents (RPs) to RTE

5.1 Process for transmitting PAs by RPs

5.1.1 General principles

This paragraph describes the general principles for the management of the Forecast Dispatch Schedules (PA) through the TOPASE application; all of the concepts presented below will be detailed in later sections of this guide.

The PAs covered by TOPASE are the PAs transmitted by the Scheduling Agents (RPs); aggregate forecast dispatch schedules for Distribution System Operators are not part of TOPASE's scope.

The PAs for a given application day D will be transmitted in an **aggregated manner, i.e. a single document contains the PAs for all scheduling entities (EDPs) of a given scheduling agent.**

A scheduling agent may report several successive versions of this document.

A PA is a quintuplet composed of 5 time series:

- Active power time series (P0)
- Frequency Containment Reserve Time series Upward (RPh)
- Frequency Containment Reserve Time series Downward (RPb)
- Automatic Frequency Restoration Reserve Time series Upward (RSh)
- Automatic Frequency Restoration Reserve Time series Downward (RSb)

The scheduling will be performed in breakpoints; the scheduling interval can be 5 or 15 minutes.

A scheduling document is valid for a given day of application; it does not apply to several days.

*A scheduling document covers
the entire application day (if transmitted between D-7 and D-1)
or
the whole range between the gate closure time + DN and the end of the application day if transmitted intradaily.*

This document consolidates the PAs of all EDP RPs.

Each PA is a quintuplet consisting of 5 time series described at breakpoint.

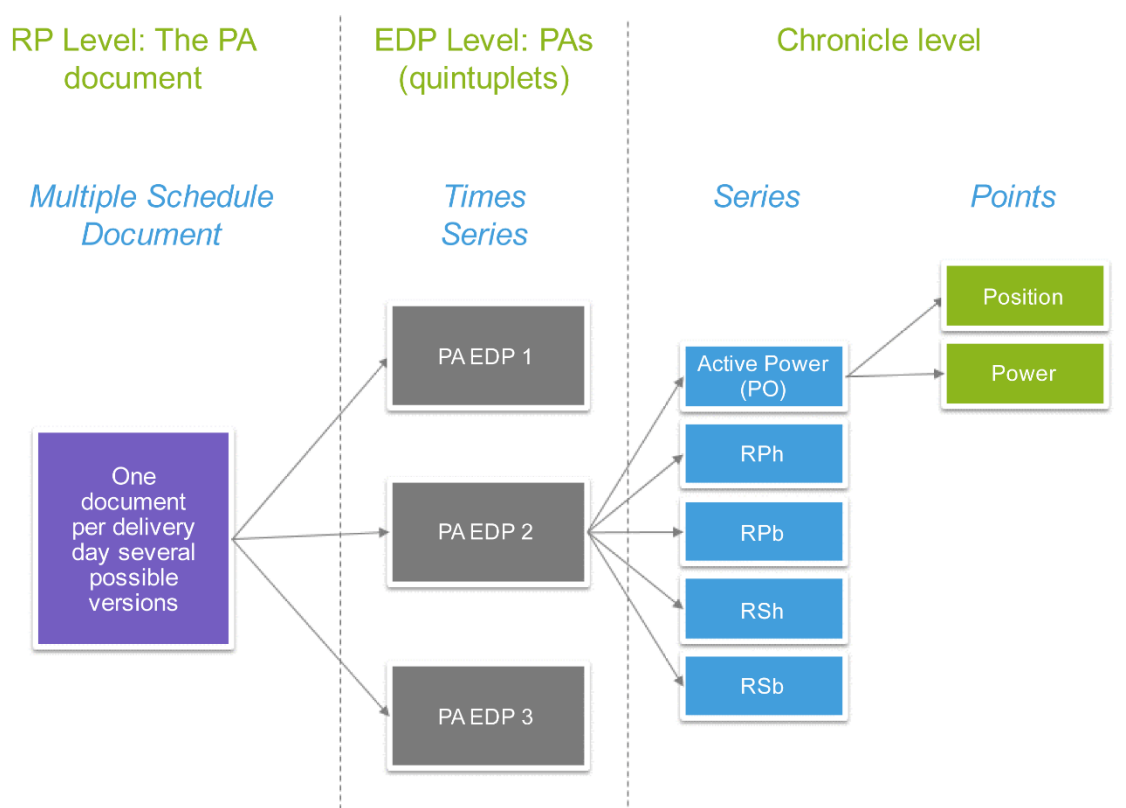
5.1.2 XML Document for PAs

The document describing the PAs of a Scheduling Agent is in xml format and must follow the following formalism:

Multiple Schedule Document

Multiple_Schedule_v1_1

The structure of the PA document is as follows:



The table below shows the details of the attributes; additional information is provided in the paragraphs following this table.

Multiple Schedule Document	Data	Mandatory / Conditional
mRID	PA_{RP Short Name}_{Application Date} Where: -PA Prefix_ -Service provider ID: Name of the Scheduling Agent (short name, assigned by RTE) -Application date in YYYYMMDD format	M
revisionNumber	Doc version number, integer = 1 for the first transmission (to be incremented with each submission for a given application date)	M

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Type	A01 (ENTSOE meaning: generation)	M
process.processType	A17 (ENTSOE meaning: Schedule day)	M
sender_MarketParticipant.mRID	Emitter EIC Code <i>Coding Scheme = A01</i>	M
sender_MarketParticipant.marketRole.type	Z10 (ENTSOE meaning: Program responsible)	M
receiver_MarketParticipant.mRID	Recipient's EIC code (RTE = 10XFR-RTE-----Q) <i>Coding Scheme = A01</i>	M
receiver_MarketParticipant.marketRole.type	A04 (<i>ENTSOE meaning: System Operator</i>)	M
createdDateTime	"YYYY-MM-DDTHH:MM:SSZ" (Date and time when the document was created in ISO 8601 UTC format)	M
Schedule period time interval	"YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ" Start date and end date of the schedule validity period. Must not exceed one day. The end necessarily corresponds to the end date of the application day concerned (YYYY-MM-DDT22:00Z in summer time or YYYY-MM-DDT23:00Z in winter time)	M
domain.mRID	EIC France (10YFR-RTE-----C) <i>Coding Scheme = A01 (EIC code)</i>	M
Reason code	<i>not used by RTE for PAs</i>	<i>Optional</i>
Reason text	<i>not used by RTE for PAs</i>	<i>Optional</i>

Resource Schedule Time Series	Data	Mandatory / Conditional
mRID	PA_{EDP Code}_{Application Date} with: -PA Prefix_ -EDP code (8 characters maximum) -Application date in YYYYMMDD format	M
Version	Doc version number, integer = 1 for the first transmission (to be incremented with each submission for a given application date)	M
Business type	Z83 for PAs reported by RPs (local code) <i>Another possible value: Z84 for selected PAs calculated by RTE</i>	M
marketObjectStatus.status	Z08 = 'P=C' re-declaration for cause P=C Z09 = 'CT' = redeclaration for technical constraints. Z10 = 'SSY' = redeclaration to comply with the changes to the requirements of Systems Services requested by RTE Z11 = 'FORTUIT' = redeclaration in case of contingency	M
Registeredresource.mRID	EDP code concerned	M
gate_DateAndOrTime.dateTime	Acceptance gate closure time, in UTC, in format YYY-MM-DDTHH :mm:ssZ	<i>Optional - is not requested from the scheduling agent. Will be calculated by RTE</i>

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Reason code	Will be used to indicate the life cycle of the PA - populated by RTE	Optional
Reason text	Explanatory text of reason code - will be filled in by RTE (see details in the implementation guide)	Optional

Series	Data	Mandatory / Conditional
mRID	{time series type}_{EDP Code}_{Application Date} -EDP Code concerned -Time series type = one of the 5 values P0, RPH, RPB, RSH, RSB -Application date in YYYYMMDD format	M
businessType	Possible values are: - A07 (RTE meaning: active power curve. ENTISOE meaning: Net Generation / Consumption) - A95 (RTE Meaning: RPH or RPB curve. ENTISOE meaning: Frequency containment reserve) - A96: RTE meaning: RSH or RSB curve. ENTISOE meaning: Automatic frequency restoration reserve)	M
flowDirection.direction	- A01 (RTE meaning: RPH or RSH curve. ENTISOE meaning: Up) - A02 (RTE meaning: RPB or RSB curve. ENTISOE meaning: Down) - Do not complete this field for Timeseries describing a PA curve.	Optional
measurement_Unit.name	MAW	M
curveType	A03 (ENTSOE meaning: Variable sized Block - breakpoints). The convention selected is as follows: - Beginning of variation at beginning of scheduling interval - Power reached indicated at the earliest during the scheduling interval and at the latest at the end of the scheduling interval	M
Reason code	not used by RTE for PAs	Optional
Reason text	not used by RTE for PAs	Optional

Series Period	Data	Mandatory / Conditional
Time Interval	Same as the Schedule Period Interval specified at the document level	M
Resolution	Possible values are: - PT5M: 5 minute interval schedule - PT15M: 15-minute interval schedule	M

Point	Data	Mandatory / Conditional
Position	Digital	M
Quantity	Power value Values are truncated to their integer value	M

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	<i>NB1: Decimal values will be allowed up to 3 digits after the decimal point; the expected separator is a full stop, not a comma</i> <i>NB2: for extraction EDPs (which only make SSY) the RRs will be able to report 0 MW in the active power time series</i> <i>NB3: Negative values are only allowed for the active power time series for STEP, NUC or Storage EDP.</i>	
--	--	--

5.1.3 The period of application of PAs

PAs are transmitted for a given period of application of up to one day.

5.1.3.1 *PA transmitted in advance*

For a PA transmitted in advance (between D-7 and D-1): This period corresponds to the interval [Start of application day; end of application day], expressed in UTC time.

Example 1: in summer time, for an PA covering the day of 25/05/2018, the difference between UTC and local time is 2 hrs:

```
<timeInterval>
  <start>2018-05-24T22:00Z</start>
  <end>2018-05-25T22:00Z</end>
</timeInterval>
```

Example 2: in winter time, for an PA covering the day of 12/12/2018, the difference between UTC and local time is 1 hr:

```
<timeInterval>
  <start>2018-12-11T23:00Z</start>
  <end>2018-12-12T23:00Z</end>
</timeInterval>
```

5.1.3.2 *Clock change*

PAs for the day of the change from summer to → winter time will apply on the 25 hrs of the day of the clock change from 22:00 UTC to 23:00 UTC:

```
<timeInterval>
  <start>2018-10-xxT22:00Z</start>
  <end>2018-10-xxT23:00Z</end>
</timeInterval>
```

PAs for the day of the change from winter to → summer time will apply on the 23 hrs of the day of the clock change from 23:00 UTC to 22:00 UTC:

```
<timeInterval>
  <start>2018-03-xxT23:00Z</start>
  <end>2018-03-xxT22:00Z</end>
</timeInterval>
```

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5.1.3.3 PAs transmitted on an intra-daily basis

For a PA transmitted on an intra-daily basis, the period of application must be the interval [Next gate closure time + DN; end of application day], expressed in UTC time.

After PR₅ date:

For example, for a PA transmitted on 25/01/2026 at 11:10 a.m. (local time), considering that the gates are positioned on each quarter hourly interval and the DN is 60 minutes, the gate time is 11:15 a.m. (local time), $H_g + DN = 12:15$ (local) or 11:15 UTC. The period of application shall be as follows:

```
<timeInterval>
  <start>2026-01-25T11:15Z</start>
  <end>2026-01-25T23:00Z</end>
</timeInterval>
```

5.1.4 PA resolution

2 resolutions are possible at the choice of scheduling agent by EDP: 5 min or 15 min. For each SE, the resolution must be provided by the scheduling agent to RTE upstream.

The resolution will be indicated at the level of each time series (level series) in the "Resolution" field which can take the values PT5M, PT15M or PT30M.

TOPASE will verify that the 5 time series of the same PA are in fact at the same resolution and that this resolution corresponds to the resolution declared by the scheduling agent to RTE upstream for the EDP concerned.

The scheduling agreement is the "final agreement":

- For service providers choosing a resolution of 5 minutes, the power given on the 10:00 interval is for the interval]9:55; 10:00];
- For service providers choosing a resolution of 15 minutes, the power given on the 10:00 interval is for the interval]9:45; 10:00]
- For service providers choosing a 30-minute resolution, the power given on the 10:00 interval is for the interval]9:30; 10:00]

5.1.5 Breakpoints

RTE asks RPs to report the different points of the transitions. RPs should not only report points where the slope of the curve changes, but all points that differ from the previous point.

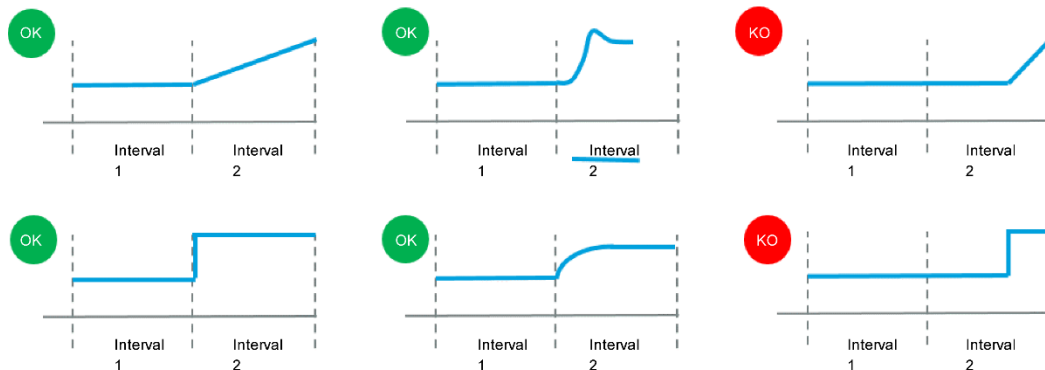
If a point in the $i+1$ position is not declared, RTE considers that the power value is equal to that of the i position.

The following schemas outline what is expected for declarations and the interpretation made by RTE:

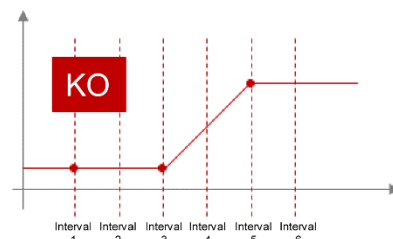
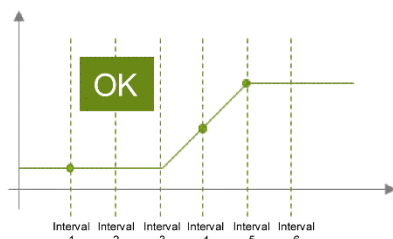
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Agreement description:

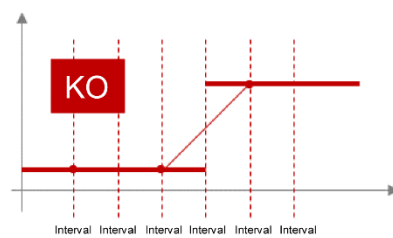
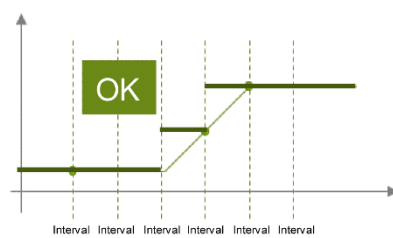
- Beginning of variation at **beginning of scheduling interval**
- Power reached indicated **at the earliest** during the scheduling interval and **at the latest** at the end of the scheduling interval



Reported by RPs



Tracked by RTE



Example:

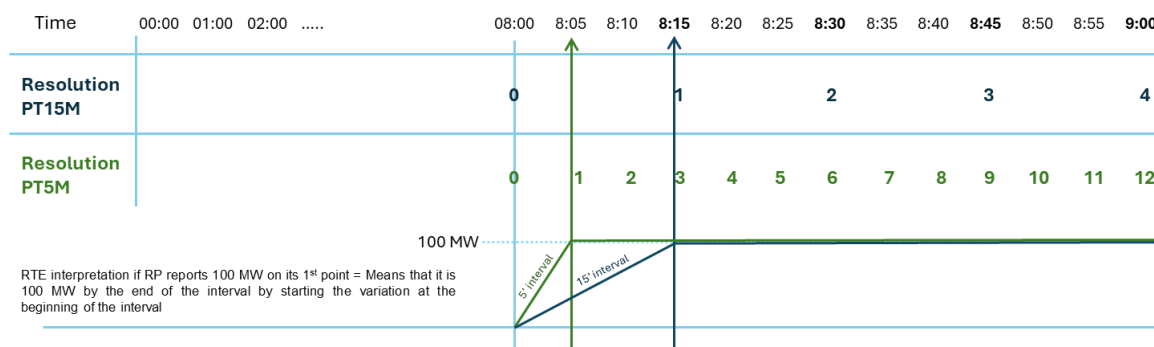
If the scheduling agent rereports an intraday PA at 6:50 a.m. (local):

The period of application of the PA is [08:00; 24:00] of the current day (local time) (*this period starts at Hg+DN or 7:00 + 60 mins = 8:00*)

The first point (position 1) of the various time series will therefore correspond

- To the interval [08:00; 08:05] local time if the PA has a 5 minute resolution
- To the interval [08:00; 08:15] local time if the PA has a 15 minute resolution

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5.1.6 The controls carried out by the TOPASE application upon receipt of PAs

The TOPASE application performs controls on the PA document transmitted by the scheduling agent;

- If the document is not valid, PAs are not integrated. Declared values are ignored
- If the document is valid, the TOPASE application controls each PA included in this document
- If a PA is not functionally valid, the PAs of the EDPs in the same influence group will also be considered invalid.

The scheduling agent will be informed of the results of these controls when the file is uploaded, via an acknowledgement that meets ENTSOE's formal requirements. The scheduling agent will also be able – at any time – to consult the status of the forecast dispatch schedules filed in the TOPASE app's HMI and via an API.

Most of the controls are carried out along the way, i.e. as soon as the forecast dispatch schedule document is received. If a forecast dispatch schedule is sent in advance (e.g. on D-2 relative to its date of application), it is checked by TOPASE as soon as it is received. However, some additional controls will only be carried out at the gate closure.

The controls to be carried out are described in detail in paragraph 5.2.

5.1.7 Convention for the establishment of mRIDs

A PA document is identified by a unique identifier, the document mRID.

A document version will be identified by the document mRID key + version number (revision number field)

Each PA contained in a document is also identified by a single PA mRID, and has a revision number. This version number must be the same as the document.

Finally, each time series constituting a PA is also identified by a single time series mRID. Time series do not have version numbers. The version number is carried by the PA and not by the time series.

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All mRIDs (document, PA, time series) are limited to 35 characters and must follow a specific format. Compliance with this format will be controlled by RTE. Non-compliance with this format will result in RTE refusing the forecast dispatch schedule(s).

5.1.7.1 Document mRID

The mRID of the document shall be as follows:

PA_{RP short name}_{Application date}

Where:

- Prefix PA_
- Service provider ID: Name of the Scheduling Agent (short name, assigned by RTE)
- Application date in YYYYMMDD format

NB: The document mRID is a field in the XML document. This is not the file name. No particular format is required regarding the filename, since it is not used by RTE. RTE only uses the XML content.

5.1.7.2 PA mRID

The mRID of a PA shall be as follows:

PA_{EDP code}_{Application date}

Where:

- Prefix PA_
- EDP code (8 characters maximum)
- Application date in YYYYMMDD format

5.1.7.3 mRID of time series

For each PA, 5 time series are expected: P0, RPh, RPb, RSh, RSb

The respective mRIDs of these 5 time series shall comply with the following format:

{Time series type}_{EDP Code}_{Application date}

Where:

- Time series type: P0, RPH, RPB, RSH or RSB depending on the time series concerned
- EDP code (8 characters maximum)
- Application date in YYYYMMDD format

5.1.8 Advance transmission

PA documents may be submitted in advance, no earlier than 7 days before the application date.

The first version of each document for an application day D is expected by D-1 at 12:30. This first version can be refined to be reaccepted on D-1, at 15:00 and/or 16:30pm and/or 23:00. If there are no changes to the first version, it is not necessary to return a new version for the 15:00 and 16:30 gateways.

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Subsequent versions of a PA document can then be transmitted at any time, until the last gate closure of application day D (D-1 22:45).

5.1.9 Acceptance gate closure

The gate closure time at which this PA is accepted is not reported by the scheduling agent in its document but calculated by RTE according to the time the document was received.

NB: the field `gate_DateAndOrTime.dateTime` present in the `MultipleSchedule` document will enable the scheduling agent to know what the gate closure time calculated by RTE is on its forecast dispatch schedules. This field should not be filled in by the scheduling agent and will not be accepted by RTE if it is declared by the scheduling agent.

The available scheduling gate closures are, in local time:

D-1 12:30; D-1 15:00; D-1 16:30; D-1 23:00; and every 15 minutes from D-1 23:00 until D 22:45.

The gate closure that applies to the PA received depends on when it is received:

- If the PA is received in advance, from D-7 to D-1 12:30 (excluded): the first applicable gate closure is D-1 12:30
- If the PA is received on D-1, between D-1 12:30 and D-1 11:00 (excluded): the gate closure applicable to the PA received is the next ATM in relation to the PA receipt time (15:00, 16:30 or 23:00)
- Between D-1 23:00 and D 22:45 (excluded): The gate closure time applicable to the PA received is the next gate closure compared to the PA receipt time

PA receipt interval (local time)	Acceptance gate closure time (Hg)
<i>Before D-7</i>	<i>File out of transmission time</i>
[D-7; D-1 12:30[	D-1 12:30
[D-1 12:30; D-1 15:00[	D-1 15:00
[D-1 15:00; D-1 16:30 [	D-1 16:30
[D-1 16:30; D-1 23:00 [	D-1 23:00
[D-1 23:00; D 22:45 [	Next quarter hourly interval
<i>After the last gate closure of D</i>	<i>File out of transmission time</i>

Once the acceptance gate closure time has passed, the PA becomes 'Closed', i.e. it will be used as it is by RTE for the entire period of time that follows, until the next gate closure. Subsequent versions will only be used from the next gate closure.

5.1.10 PA update

A PA can be redeclared several times, before D or intraday. The redeclaration is done by sending a new version of the PA document, which keeps the same mRID but has an increment of the version number ("Revision number").

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There is no limit to the maximum number of redeclarations allowed by the TOPASE application, but too many redeclarations per user can cause problems in RTE's application chain, and thus lead to incidents in the smooth running of the scheduling process, which can threaten RTE's ability to carry out its mission of balancing the French power system. The scheduler should therefore not redeclare PA if the latter do not change compared to the previous one, and therefore if the redeclaration has no physical motivation.

No constraints are imposed on the scope of redeclared EDPs. The scheduling agent can add new EDPs or remove EDPs that were present in the previous document version.

Finally, a PA document does not overwrite the previous one. The TOPASE application does not work in annul mode and replaces for PAs, previous versions are kept, so that they can be used in case the most recent version does not pass functional controls.

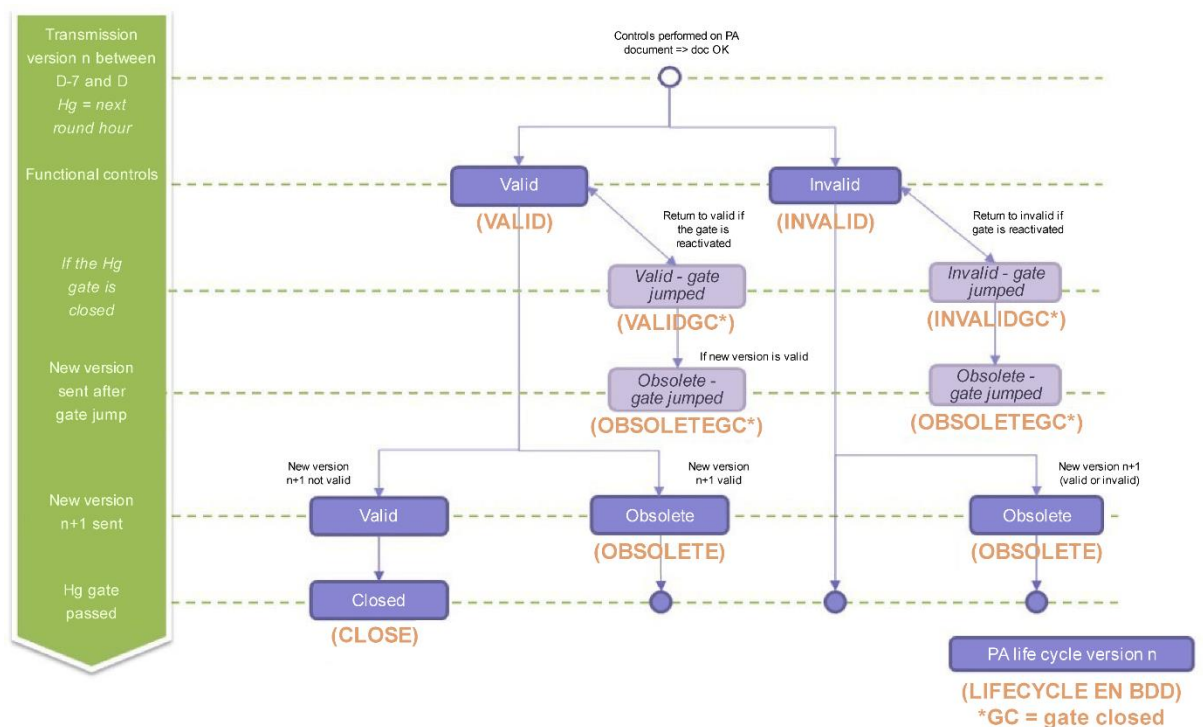
5.1.11 PA life cycle

The above diagram illustrates the life cycle of a given version n of a PA.

This life cycle depends on:

- The result of the various controls (syntax, functional) that put the PA in a VALID or INVALID state
- The gate closure time at which this PA is accepted (H_g score, calculated by RTE according to the PA receipt time)
- The possible receipt of a version $n+1$ of the same PA, which can make the previous version OBSOLETE.
- The open or closed character of the next scheduling gate closure. If the gate is closed, the APs concerned will be in specific states VALIDGC, INVALIDGC, OBSOLETEGC (GC meaning '*Gate Closed*'). This point is detailed in the following paragraph (in the case of a closed-gate PA)

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5.1.12 Selected PA

For each scheduling gate and for each EDP, the TOPASE application calculates a selected PA from the PAs reported by the scheduling agent.

The PA selected from an EDP:

- corresponds to the PA values accepted by RTE for the closure and performance control
- covers the whole day of application
- is set to a 5 minute interval
- is updated with each PA redeclaration taking into account:
 - o new power values to be accepted
 - o adjusted power values following the application of business controls
- in the absence of a PA redeclaration between two gate closures, the PA_retenu from an EDP is not amended: $PA_retenu_{HG} = PA_retenu_{HG-1}$

The selected PA calculated by TOPASE on the gate closure is routinely in version 1 (even if it is based on a PA version declared by the service provider to be greater than 1).

There will be 96 PAs selected in v1 for a standard day (excluding clock changes), one per gate closure.

It is possible that TOPASE calculates v2 in exceptional cases (case of manual injection).

The selected PAs will be available for consultation by the RPs at any time.

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5.1.13 When sending a PA on a closed gate (degraded mode)

In the event of a major failure, RTE may reserve the right to close one or more scheduling gates. In this case, a message is sent to the scheduling agent by the hotline to warn them.

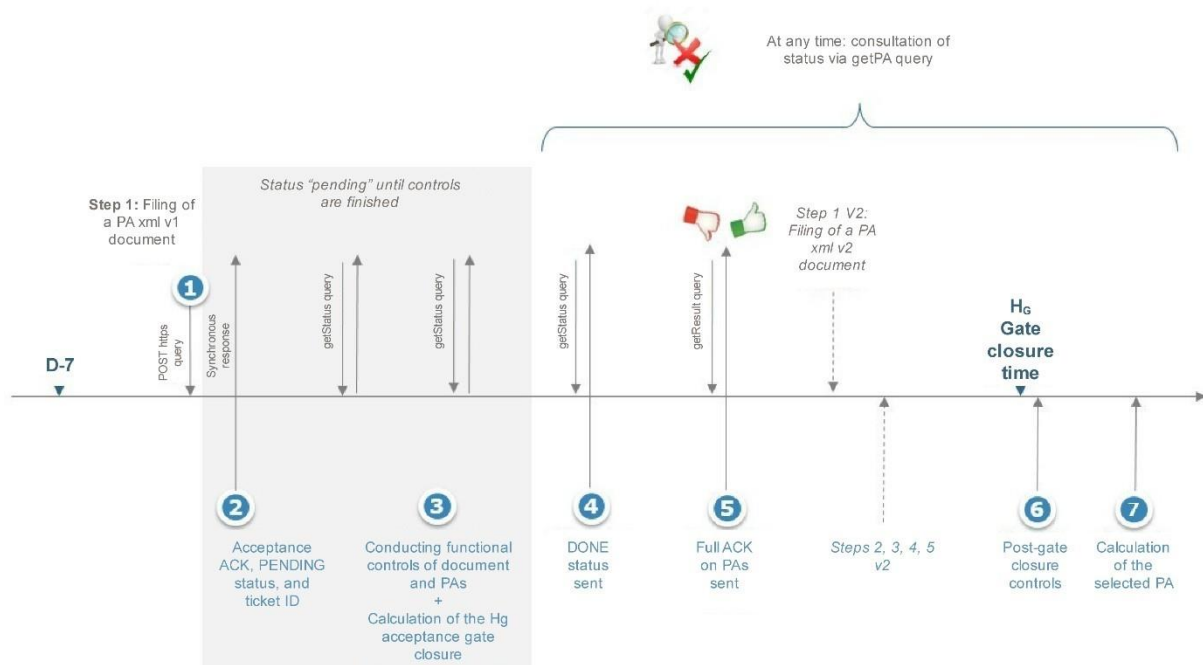
No scheduling document submitted for the closed gate will then be accepted by RTE, as long as the gate remains closed. PAs received for this gate closure will not be recorded for the calculation of the PA selected, and that they were sent before or after the close of the ATM:

- PAs received for the closed gate before it is closed will be converted to VALIDGC status (if they were VALID), INVALIDGC status (if they were INVALID) or OBSOLETEGC status (if they were OBSOLETE) - *GC signifying Gate Closed (see § above concerning the description of PA life cycles)*
- PAs received after closure of the gate are rejected.

NEW!

5.2 The different stages of the PA submission process

The diagram below illustrates the process of submitting PAs through the application. These steps will be described in the following paragraphs.



5.2.1 Step 1: Filing a PA document

The scheduling agent submits the PA document via the TOPASE interface (HMI or API). The scheduling agent can change the mode of communication (HMI or API) if it wishes over time.

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Upon receipt of the document, TOPASE responds that it has been properly accepted (synchronous response). The response contains a ticket ID with which the scheduling agent can then come and ask TOPASE for information on how to process this document, via an API of the type `get/submission/status`.

The API connection information (URL etc.) is described in paragraph 5.4 below (Interface Machine to Machine for Forecast Dispatch Schedules)

5.2.2 Steps 2 and 4: Query by `get/submission/status` query type

Upon receipt of the document, TOPASE responds that it has been properly accepted (synchronous response). The response contains a ticket ID with which the scheduling agent can then come and ask TOPASE for information on how to process this document, via an API of the type `get/submission/status`.

This `get/submission/status` API will refer to the scheduling agent:

- a 'pending' status as long as controls on the document and its contents are in progress
- a 'done' status when these treatments are completed

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5.2.3 Step 3.1: Document Control

The controls described in this section are document-level controls. If one of these controls fails, the document will be rejected in its entirety and the PAs will not be retrieved.

5.2.3.1 Document-level controls list

The following controls are carried out by TOPASE on the document at the time of submitting a PA document:

1. Syntax controls: non-empty document, indentations, correct tags, all field syntax compliance, header. The following values are expected in the document header:

Field	Expected Value
Business Type	A01 (ENTSOE meaning: generation)
process.processType	A17 (ENTSOE meaning: Schedule day)
sender_MarketParticipant.marketRole.type	Z10 (ENTSOE meaning: Program responsible)
receiver_MarketParticipant.mRID	10XFR-RTE-----Q (ENTSOE meaning: EIC RTE)
coding.Scheme	A01 (Meaning ENTSOE: EIC code)
receiver_MarketParticipant.marketRole.type	A04 (ENTSOE meaning: System operator)

2. Consistency between the document issuer and the scheduling agent identified in the document
3. Presence of an existing Participation Agreement (PA-RP)
4. Complying with transmission deadlines:
 - TOPASE verifies that the document is not transmitted too soon compared to the application date. Currently, the transmission time allowed is 7 days in advance.
 - TOPASE verifies that the reporting period of the document is in line with the gate closure and the neutralisation leadtime: no value earlier than $H_g + DN$ (currently the DN for the scheduling is 60 minutes)
5. Verifying version number increment:
 - The version number of the document must be strictly higher than the version numbers of the same document previously transmitted (whether they are for accepted or refused documents)
 - However, it is not expected that the increment of the version numbers will always be 1
6. Document mRID control: verify the format of PA_{RP Name}_{Application Date in YYYYMMDD format}
7. It will also be checked at the document level that all the SchedulePeriods indicated in the document (at the time series level and at the document level) are consistent. Failure to control at least one time series of the document results in the rejection of

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the entire document. The error will then be tracked at the document level and also at the PA level concerned.

8. It will also be checked at the document level that all time series start in position 1. Failure to control at least one time series of the document results in the rejection of the entire document. The error will then be tracked at the document level and also at the PA level concerned.
9. Checking the SchedulePeriod of the Forecast Dispatch Schedule document. This period must cover a maximum of one day and must end at midnight (local time).

5.2.3.2 Document-level error code list

No.	Control	Reason Code ENTSOE + ENTDOE description	Reason text (FR)
1	Empty Document	B01 (ENTSOE meaning = incomplete document)	Empty documents
	Syntax error	B01 (ENTSOE meaning = incomplete document)	Syntax error at line X
	Business Type <> A01	A62 (invalid business type)	Line <X>: expected value is <X>
	process.processType <> A17	A79 (Invalid Process)	Line <X>: expected value is <X>
	Coding Scheme <> EIC	A78 (sender identification and/or role invalid)	Line <X>: expected value is <X>
	sender_MarketParticipant.marketRole.type <> Z10	A78 (sender identification and/or role invalid)	Line <X>: expected value is <X>
	receiver_MarketParticipant.mRID <> 10XFR-RTE-----Q (RTE EIC)	A53 (receiving party incorrect)	Line <X>: expected value is <X>
	coding.Scheme <> A01 (EIC code)	A53 (receiving party incorrect)	Line <X>: expected value is <X>
	receiver_MarketParticipant.marketRole.type <> A04 (System operator)	A53 (receiving party incorrect)	Line <X>: expected value is <X>
2	No PA-RP	A05 (Sender without valid contract)	The service provider <EIC> does not have an existing RP participation agreement
3	Control of the issuing service provider consistent with that of the document	A78 (The identification of the sender or the sender/role combination is invalid)	Inconsistency between connected service provider and file service provider
4	Non-compliance with transmission deadlines	A57 (Deadline limit exceeded / Gate not open)	Non-compliance with transmission deadlines
5	Version number increment: number already present in the database	A51 (message identification or version conflict)	Version number of this document already exists in the database
	Version number increment: Strictly superior version number exists in the database	A51 (message identification or version conflict)	A higher version number of this document already exists in the database
6	Non-compliance with the format of the document mRID	A51 (message identification or version conflict)	Invalid document mRID
7	Inconsistency between the schedule period of the document and the schedule period of at least one of the time series	A04 (Time interval incorrect)	The period of application of the time series shall be equal to the period of application of the document
8	No point in position 1 for at least one of the time series in the document	A49 (Position inconsistency - A position is missing or too many.)	Each time series must have at least 1 point in position 1
9	Checking of PA document SchedulePeriod = one day ends at 0:00 (local time)	A04 (Time interval incorrect)	The period of application must cover one day and end at midnight (local time)

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5.2.4 Step 3.2: PA Control

Once the document is accepted (i.e. having passed the controls described in Step 3.1), the PAs are functionally controlled one by one. After these controls, a PA can be either "Valid" (if all controls are positive) or "Invalid" (if any of these controls fails). An overall ACK will be generated at the end of the process to inform the scheduling agent of the status of each of the Forecast Dispatch Schedules in the submitted document and details of any errors encountered (see Step 6)

5.2.4.1 *PA-level list of controls*

Controls at the PA level are as follows:

1. Verification that for each PA, 5 curves (or series) were reported by the scheduling agent:
 - P0: One Series with BusinessType = A07 (active power curve)
 - RPh: One Series with BusinessType = A95 + flowDirection.direction = A01
 - RPb: One Series with businessType = A95 + flowDirection.direction = A02
 - RSh: One Series with BusinessType = A96 + flowDirection.direction = A01
 - RSb: One Series with businessType = A96 + flowDirection.direction = A02

This control may not be passed for 2 reasons:

- There are not 5 time series for a given PA (missing or unnecessary time series)
- There are 5 time series in a given PA, but they do not match the expected time series (for example, there is something of the type P0, RPh, RPh, RSh, RSh)

As long as the 5 expected time series are present, this control is passed, even if the time series are not in order (e.g. RPh, RSb, P0, RSh, RPb is passing).

2. Validity of scheduling resource (EDP or EDR) in reference data
3. Ability to make RPh, RPb, RSh, RSb
4. Consistency of the resolution of the EDP scheduling and the resolutions of the 5 declared time series
5. Consistency of PA values:
 - Control on negative active power values: these are only allowed if the EDP is of type STEP, NUC or Storage
 - No negative values for RPh, RPb, RSh, RSb time series
 - Checks of SSY values at EDR level: check that the values declared for each 5-minute interval are consistent with the values declared in appendix 4 of the SSYf rules
 - Sum of RP_upwards time series for all SEs that make up the EDR $\leq$ RPmax_upwards + RSmax_upwards
 - Sum of RP_downwards time series for all SEs that make up the EDR $\leq$ RPmax_downwards + RSmax_downwards

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- Sum of RS_upwards time series for all SEs that make up the EDR $\leq$ RSmax_upwards
- Sum of RS_downwards time series for all SEs that make up the EDR $\leq$ RSmax_downwards
- Sum of RP_upwards + RS_upwards time series for all SEs that make up the EDR $\leq$ ReserveMax_upwards
- Sum of RP_downwards time series for all SEs that make up the EDR $\leq$ ReserveMax_downwards

These controls are applied to all of the Forecast Dispatch Schedules making up an SE filed for a particular gate closure.

- Minimum power control offered ($> 1\text{MW}$)
6. Control of the links between EDP Head and valley and influenced EDPs
 7. No duplicate in document. If a particular EDP is reported twice or more within the same RFP document, all declarations relating to that RFP are refused
 8. Control of PA mRID: check the PA_{EDP Code}_{Application Date in YYYYMMDD format}.
 9. PA version number check: PA version number (tag <version> at the PA level) must be the same as the version number present at the document level (tag <revisionNumber> document).
 10. Check for the presence and validity of the redeclaration type in the tag <marketObjectStatus.status>. Possible values are:
 - Z08 = 'P=C' re-declaration for reason P=C.
 - Z09 = 'CT' = redeclaration for technical constraints.
 - Z10 = 'SSY' = redeclaration to comply with the changes to the requirements of Systems Services requested by RTE

This field is the equivalent of the field type of redeclaration of the PA_PROD file currently sent to SYGA. It will be used in the same way as currently, there is no new associated business. Only the codification is new:

- Z08 corresponds to 1 in SYGA
- Z09 corresponds to 2 in SYGA (CT)
- Z10 corresponds to 3 in SYGA (SSY)
- Z11 should not be used at this time as incidental items continue to be reported by telephone.

NB: below is an excerpt from the implementation guide for the current Balance Mechanism

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The file contains 4 lines for each EDP whose Call Schedule has been redeclared:

EDP ID;Type of redeclaration;comment;

Chronicle Type;PA₁ Value;PA₂ Value;.....;PA₄₈ Value;

Chronicle Type;PP₁ Value;PP₂ Value;.....;PP₄₈ Value;

Chronicle Type;PS₁ Value;PS₂ Value;.....;PS₄₈ Value;

Definition of parameters

Field	Description	Value or Format
EDPT ID	EDP Code communicated by RTE	
Redeclaration type	Redeclaration type flag	An integer that can only be: - "1": other Redeclaration - "2": Redeclaration for technical constraints - "3": Redeclaration to comply with amendments to System Service requirements requested by RTE

By convention, initial declarations will be for the reason P=C (Z08)

11. Verify that system service time series do not have negative values.
12. Control of mRID of each PA time series: checks the format {time series type}_{EDP Code}_{Application date in YYYYMMDD}.

5.2.4.2 PA-level error code list

No.	Control	Reason Code ENTSOE + ENTSOE description	Reason text (FR)
1	Number of time series per EDP	A20 (Time series fully rejected)	5 time series are expected by EDP: PO, RPh, RPb, RSh, RSb
2	The EDP does not belong to the scheduling agent connected in the reference data	Z38 (Entity not present in the scheduling perimeter)	"The PA EDP is not in your scheduling perimeter (see reference data)"
	EDP is not present in reference data	Z39 (Unknown entity)	"EDP is unknown in reference data"
	Internal IS failure, cannot access reference data	Z40 (Unable to access reference data)	"Failed processing, cannot access reference data"
	Internal IS failure, reference data-level technical error	Z41 (Technical issue on reference data)	"Processing failed, error in reference data"
3	Ability to perform RPh, RPb, RSh, RSb	Z42 (Unable to perform the schedule)	The EDP is not intended to provide time series values (RPh, RPb, RSh, RSb)
4	Consistency of the resolution of the EDP scheduling and the resolutions of the 5 declared time series	A41 (Resolution inconsistency)	Resolving time series that do not conform to the reference data
5	Consistency of RP/RS power values	A42 (Quantity inconsistency)	<i>The declared SSY powers have exceeded the maximum reference values for the EDR</i>
6	Control of the links between EDP Head and valley and influenced EDPs	Z44 (Link with the head of valley scheduling entity)	Influence link not complied with.
7	No duplicate	A55 (Time series identification conflict)	Duplicate PA

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8	Failure to comply with the format of the PA mRID	<i>A55 (Time series identification conflict)</i>	invalid PA mRID
9	Verify that the PA version number is equal to the document version number	<i>A51 (message identification or version conflict)</i>	The PA version number must be the same as the document version number
10	Verification of the presence and validity of the redeclaration type	<i>Z46 (No status provided)</i>	The redeclaration type must be specified in the <code>MarkeObjectStatus.status</code> tag
11	Verifying that System Services time series do not have negative values	<i>A46 (Quantities must not be signed values)</i>	Negative values detected in the time series of (RPh, RPb, RSh, RSb)
12	Control of mRID of each PA time series	<i>A55 (Time series identification conflict)</i>	Time series mRID [P0, RPH, RPB, RSH, RSb] is invalid

5.2.5 Sending of the ACK

Once the controls described in the above paragraphs have been carried out, the TOPASE application informs the scheduling agent via a 'done' response to the `get/submission/status` query.

The scheduling agent then submits a query of type `get/submission/ack` to obtain the result of the controls carried out. This result will be returned to the body of the response, in the form of a Acknowledgement Document (or ACK), respecting the ENTSOE format:

Acknowledgement document

**iec62325-451-1-
acknowledgement_v8_0.xsd**

In this ACK, the scheduling agent will find details of the errors encountered, codified according to the ENTSOE list code or the local list code, and accompanied by a text explaining the error encountered:

- If one or more of the controls at the document level described in 5.2.2 do not pass, the ACK will notify the scheduling agent of the failures encountered at the document level by means of a dedicated error code (see details of the error codes below)
- In the event that the document level controls passed, but one or more of the PAs in the document (or all of them) do not pass the functional controls, the ACK will inform the scheduling agent of the PA level errors (see details of the error codes below)
 - In this case, the list of errors detected during functional controls on invalid PAs is provided. Valid PAs are not listed in this ACK.
 - If some but not all PAs in the document are invalid, the ACK Reason Code will be A03 (indicating that the document contains Times Series errors).
 - If all PAs in the document are invalid, the ACK Reason Code will be A02 (indicating that all Times Series are rejected)

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- In both cases, errors detected on each PA will be reported at the PA(s) level in error via a dedicated Reason Code / Reason text (see table detailing error codes below)
- If all PAs in the document are valid, the ACK simply indicates the A01 code, without including any details on PAs.
- If the next scheduling desk is closed: the ACK in response to the deposit includes a reason code A57 + reason text 'Gate closed' at the document level. The ACK will also indicate that the PAs have been made VALIDGC or INVALIDGC with the following Reason Code / Reason Text at the Time Series level:

PA_LIFECYCLE_STATE	Reason code	Reason text (FR)	Reason text (EN)
VALIDGC	Z35	<i>Guichet fermé (PA valide)</i>	<i>Gate closed (valid PA)</i>
INVALIDGC	Z36	<i>Guichet fermé (PA non valide)</i>	<i>Gate closed (invalid PA)</i>

5.2.6 Controls at the gate

At the passing of the gate closure, RTE verifies that the amendments requested by the scheduling agent do not go in the opposite direction to the balancing operations activated by RTE. If this is the case, the declaration made at the gate closure concerned will be refused.

5.3 Web HMI Interface for PA

The TOPASE Web HMI URL is given in paragraph 2.4 and the screens and main features of the TOPASE Web HMI are described in the reference document [7].

The Web HMI provides the following functionality to the scheduling agent through its web browser (these functionalities will be detailed in the paragraphs below):

1. File a PA Document
2. View the exchange log (list of PA documents submitted, state of the exchange) and download the PA documents and the ACK corresponding to the XML format.
3. View a reported PA, check the results of the controls and list of any errors detected.

5.3.1 File a PA document

The TOPASE HMI includes a "Document Submission" tab that allows the scheduling agent to manually file one or more PA documents and upload them to the TOPASE application.

5.3.2 View Exchange Log

The TOPASE HMI includes a tab called 'Exchange Log' which allows the scheduling agent to consult the list of exchanges concerning it, with the possibility to go back to the past (scope of the data searchable to be defined).

This log is common to all process types managed in TOPASE: participation in scheduling, etc.

This journal presents the main data associated with each exchange, namely:

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- The date and time of the exchange
- The date and time of application of the document
- The process (Scheduling from the perspective of filing PA documents)
- The issuer and the addressee of the exchange
- The type of exchange (e.g. PA deposit)
- The mRID of the document
- The version number of the document
- The status of the exchange (OK / KO)
- The details of the error encountered, if the status is KO. The error messages displayed in this column are consistent with the messages sent to the scheduling agent in the ACK (see [here](#))
- Action buttons to open and/or download the corresponding document and ACK

A search banner allows you to filter exchanges on all of this data.

Sorting is possible on the columns.

A button is used to download PA documents submitted by RPs and ACKs sent by RTE in XML format.

5.3.3 View PA log

The TOPASE HMI includes a tab called the "PA Log" that allows the scheduling agent to view a list of their reported PAs, so that they can see the status of their PAs in real time.

This journal presents the main data associated with each PA, namely:

- The date of application of the PA
- EDP
- The PA version number
- The PA acceptance gate closure (calculated by RTE)
- The state of the Forecast Dispatch Schedule in its life cycle (valid / invalid / closed / etc. For the various possible states, see § **Erreur ! Source du renvoi introuvable.**)
- The details of the error (or errors) that indicates the cause of the refusal if the PA is in a "Invalid" status. The message displayed in this column will be consistent with the indication contained in the ACK (see § **Erreur ! Source du renvoi introuvable.**)

A search strip allows you to filter the PAs displayed on this screen. Sorting is possible on the columns.

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5.3.4 Review selected PAs

There are no plans to have a HMI for the consultation of the selected PAs. An API will allow RPs to view their selected PAs in Machine to Machine mode (see below)

5.4 Machine to Machine interface for PAs (API)

5.4.1 The various URLs

In pre-generation

The various URLs that are useful in the process of filing the forecast dispatch schedules are listed below; they are described in more detail in the following paragraphs

For HMIs

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-web/>

For APIs

PA filing:

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/pa>

Consultation of the ticket status:

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/submission/status>

Consultation of the ACK:

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/submission/ack>

Consultation of the PAs (PA report):

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/pa-report>

For this API, swagger documentation is available here (requires a certificate)

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-web/ext/swagger-ui.html>

In generation

For HMIs

⇒ <https://secure-apps.iservices.rte-france.com/topase-web/>

For APIs

Forecast dispatch schedule filing:

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/documents/pa/>

Consultation of the ticket status:

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/submission/status/>

Consultation of the ACK:

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/submission/ack/>

Forecast dispatch schedule filing (PA report):

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/pa-report>

5.4.2 File in https

API XX allows RPs to file their PAs with RTE.

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5.4.2.1 Location

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/pa/>

5.4.2.2 Category

Format: APPLICATION/XML

5.4.2.3 How the API works

General principles:

The API follows the following operating principle:

- Check for caller authentication and authorisations via an upstream PKI certificate
- A synchronous answer on the proper acceptance of the Forecast Dispatch and ticket identifier.

5.4.2.4 Resources

Name	Method	URI
Sending a MultipleScheduleDocument by API	POST	/api/v{{version}}/documents/pa

5.4.2.5 Settings

NAME Settings	CARD.	DESCRIPTION	TYPE	VALUES / FORMAT
MultipleScheduleDocument	1	Requested Document Type	XML	see xsd

5.4.2.6 Response

http codes:

HTTP CODES	Cases
200	Document filed successfully
400	Syntax error
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

Content:

The body contains:

- The ticket ID to be able to view the status of the processing performed on the document
- Status (pending)

5.4.2.7 Making swagger available

This API is not described in the swagger.

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5.4.3 Consultation of the status of the execution of the controls carried out on the document

5.4.3.1 Resources

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/submission/status/>

Name	Method	URI
Consultation of the status of performing API controls	GET	/api/v{{version}}/submission/status/{{ticketNumber}}

This service allows you to consult the status of the performance of the controls carried out by the RTE IS following the filing of a bid.

5.4.3.2 Settings:

NAME Settings	CARD.	DESCRIPTION	TYPE	VALUES / FORMAT
Ticket No.	1	Identifier of the filed document, for which the scheduling agent requests progress in carrying out the checks		

5.4.3.3 Response

http codes:

HTTP CODES	Cases
200	Success
400	Syntax error
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

Content:

The body indicates the status of the processing performed on the filed document:

- Pending: ongoing
- Done: finished

5.4.4 Consultation of the result of the controls carried out on the document

5.4.4.1 Resources

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/submission/ack/>

Name	Method	URI
Consultation of control results by API	GET	api/v{{version}}/submission/ack/{{ticketNumber}}

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This service allows you to consult the results of the controls carried out by the RTE IT system following submission of a Forecast Dispatch Schedule. The answer is an XML document of type "Acknowledgement"

5.4.4.2 Settings

NAME Settings	CARD.	DESCRIPTION	TYPE	VALUES / FORMAT
Ticket No.	1	Identifier of the filed document, for which the service provider requests the result of the controls		

5.4.4.3 Response

http codes:

HTTP CODES	Cases
200	Success
400	Syntax error
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

Content:

The body contains an XML of type 'acknowledgement'.
(see iec62325-451-1-acknowledgement_v8_0.xsd).

The acknowledgement will inform the caller of the result of the controls carried out by the TOPASE application following the submission of Forecast Dispatch Schedule. The ACK will indicate any errors detected at the document or Forecast Dispatch Schedule level.

5.4.5 Consultation of the PAs filed and the PAs selected

The RPs will be able to review at any time the details of one or more of their filed PAs and the PAs selected by RTE using an API (GET method) to retrieve a MultipleSchedule XML document indicating where the PA is in its life cycle and what errors are detected.

5.4.5.1 Resources

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/pa-report/>

Name	Method	URI
Consultation of reported PAs and selected PAs	GET	api/v{{version}}/pa-report

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This service allows you to consult the results of the controls carried out by the RTE IT system following submission of a Forecast Dispatch Schedule. The response is a MultipleSchedule type XML document

5.4.5.2 Settings

Parameter	Cardinality	Description	Type	Values / Format
businessType	1	Type of PA on which the query relates (Z83:declared, Z84:selected)	Text	Z83 = declared Z84 = PA selected
schedulePeriod	1	Application Date in Format: YYYY-MM-DD	UTC date	YYYY-MM-DDTHH:mmZ
Service provider ID	0..1	Name of company to which the service provider belongs (short name)	Text	
revisionNumber	0..n	Version number(s) requested	Number	If not specified → return all version numbers
registeredResource.mRID	0..n	Registered Resource (EDP) on which the request is made	Text	If absent → returns all the EDPs of the service provider
Lifecycle	0..n	Code corresponding to the desired life cycle(s)	Text	If absent → returns all lifecycles
mRID	0..1	PA mRID	Text	If the service provider wishes to consult a particular PA
Column	0..1	Criteria for sorting results desired by the service provider	Text	Criteria for sorting results desired by the service provider
Column direction	0..1	Sort direction	Text	asc or desc
Page	0..1	Pagination	Number	
Size	0..1	Number of PAs requested in response	Number	Default 200
gateTime	0..1	Date and time of gate closure in UTC format YYYY-MM-JJTHH:MMZ	UTC date	

5.4.5.3 Response

http codes:

HTTP CODES	Cases
200	Success
400	Syntax Error: One or more settings are incorrect
401	Authentication required
403	Permission denied
404	Resource not found
500	Internal Error

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The response consists of an XML body in the MultipleSchedule Document format identical to the PA declaration document, enriched with a TimeSeries reason code / reason text indicating the state of the PA in its life cycle:

PA_LIFECYCLE_STATE	Reason code	Reason text (FR)	Reason text (EN)
<i>Valid</i>	B06 (TimeSeries accepted)	<i>Valid</i>	<i>Valid</i>
<i>Invalid</i>	A20 (TimeSeries fully rejected)	<i>Invalid</i>	<i>Invalid</i>
<i>Obsolete</i>	Z30 (Obsolete Program)	<i>Obsolete</i>	<i>Obsolete</i>
<i>Closed</i>	Z31 (Firm Program)	<i>Ferme</i>	<i>Closed</i>
<i>VALIDGC</i>	Z35	<i>Guichet fermé (PA valide)</i>	<i>Gate closed (valid PA)</i>
<i>INVALIDGC</i>	Z36	<i>Guichet fermé (PA non valide)</i>	<i>Gate closed (invalid PA)</i>
<i>OBSOLETEGC</i>	Z37	<i>Guichet fermé (PA obsolete)</i>	<i>Gate closed (deprecated PA)</i>

5.4.5.4 SWAGGER consultation

A swagger describing the API for consultation of the declared and selected forecast dispatch schedules is made available to the scheduling agent.

The swagger is available here (requires a certificate)

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-web/ext/swagger-ui.html>

6 Scheduling and balancing gates status

An API is available to allow scheduling agents and balancing service providers to check the status of the scheduling and balancing gates via M2M.

6.1 Location

In pre-production

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/gate-status>

In production

⇒ <https://secure-apps.iservices.rte-france.com/topase-api/api/v1/gate-status>

6.2 Category

Protocol : REST / Format : JSON

6.3 Resources

Name	Method	URI
Check of the status of the scheduling and balancing gates	GET	/api/v{{version}}/gate-status

6.4 Parameters

Parameter name	CARD.	DESCRIPTION	TYPE	VALUES / FORMAT
applicationDate	1	Application date	Date	AAAA-MM-JJ Example : 2026-01-13
gateDateTimeUtc	0 à 1	Gate date and time	DateTime	Format UTC AAAA-MM-JJThh:mm:ssZ ou absent Example : 2026-01-13T12:00:00Z
gateType	0 à 1	Gate type	String	Possible values: • « scheduling » • « balancing » • Missing field

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6.5 Response

Http codes:

HTTP CODES	Cas
200	Successful response
400	Invalid settings
401	Authentication required
403	Permission denied
500	Technical error
503	Maintenance impacting the API

Body:

The body contains:

Champ	Cardinalité	Description	Type	Valeurs / Format
scheduling	0 à 1	Array containing the lists of closed scheduling gates and cancelled scheduling gates	Array	
closedGates	1	Closed scheduling gates list	List	
gate		Closed scheduling gate	DateTime	AAAA-MM-JJThhmmZ Example : 2026-01-13T12:00Z
updateTimeStamp	1	Timestamp of the operator action in the application	Timestamp	
cancelledGates		Cancelled scheduling gates list	List	
gate		Cancelled scheduling gate	DateTime	AAAA-MM-JJThhmmZ Example : 2026-01-13T12:00Z
updateTimeStamp	1	Timestamp of the operator action in the application	Timestamp	
balancing	0 à 1	Array containing the lists of closed balancing gates	Array	
closedGates	1	Closed balancing gates list	List	
gate	1 à n	Closed balancing gate	DateTime	AAAA-MM-JJThhmmZ Example : 2026-01-13T12:00Z

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	updateTime stamp	1	Timestamp of the operator action in the application	Timestamp	
--	-------------------------	---	---	-----------	--

6.6 Usage rules

Rule N°	Description
1	The field "closedGates" is mandatory and is returned empty if there are no closed gates for the selected type
2	The field "cancelledGates" is mandatory and is returned empty if there are no closed gates for the scheduling type
3	In case the gateType parameter is missing in the query, both gate types are returned
4	Accepted values for the input parameter gateType are « scheduling » or « balancing » but not both at the same time
5	If the parameter gateDateTimeUtc is missing, the query concerns all the UTC gates of the applicationDate
6	If the parameter gateDateTimeUtc is missing or empty, the query only concerns this gate
7	There is no cancellation possible for balancing gates (and therefore no cancelledGate field)
8	If a field is present but empty, the API returns a 400 error

6.7 Recommended call frequency

Application	Call Frequency
AA	Once per gate
RP	Once per gate

6.8 API response example

ResponseBody :

```
{
  "scheduling": {
    "closedGates": [
      {
        "gate": "2026-01-13T12:00Z",
        "updateTimestamp": "2026-01-13T11:58Z"
      },
      {
        "gate": "2026-01-13T13:15Z",
        "updateTimestamp": "2026-01-13T11:55Z"
      }
    ]
  },
}
```

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```

        "cancelledGates": [
            {
                "gate": "2026-01-13T15:00Z",
                "updateTimestamp": "2026-01-13T15:02Z"
            }
        ]
    },
    "balancing": {
        {
            "closedGates": [
                {
                    "gate": "2026-01-13T16:00Z",
                    "updateTimestamp": "2026-01-13T11:55Z"
                },
                {
                    "gate": "2026-01-13T19:15Z",
                    "updateTimestamp": "2026-01-13T11:55Z"
                }
            ]
        }
    }
}

```

6.9 SWAGGER consultation

A swagger describing the API for the gates' status is made available to scheduling agents and balancing service providers.

The swagger is available here (requires a certificate)

⇒ <https://secure-apps-dev.iservices.rte-france.com/topase-web/ext/swagger-ui.html>

7 Definitions and glossary of abbreviations

7.1 Definitions

All words or groups of words used in this document with their first capital letters have the meaning given to them below or in Article 1 of the balancing market terms and conditions.

7.2 Glossary of Abbreviations

Balancing Service Provider	Balancing Service provider
CUO	Terms of Use of a Balancing Bid
DN	Neutralisation leadtime
EDA	Balancing Entity
EDP	Scheduling Entity
HTTPS	HyperText Transfer Protocol Secure
HMI	Man-Machine Interface
M2M	Machine To Machine
PKI (Certificate)	File for User Identification (Public Key Infrastructure)
PA	Forecast Dispatch Schedule
PM	Final Dispatch Schedule
REST	REpresentational State Transfer is an architecture style for distributed hypermedia systems
RP	Scheduling Agent
RR/RC	Rapid Reserve / Supplementary Reserve
IS	Information System
SSY	System services
URL	Web Address (Uniform Resource Locator)
XML	eXtensible Markup Language is a generic markup computing language