Le réseau de transport d'électricité

SYGA-TOPASE switchover Technical Workshop

16th May 2023

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Ordre du Jour

PART A: for balancing service providers and scheduling agents

1. Switchover from SYGA to TOPASE

   - Context and planning
   - Update of the implementation guide
   - Controls on the files
   - Prepare for the tests and the effective changeover
   - The TOPASE application in pre-production
   - Scenarios of tests to be considered
   - Annexes
     - Reminder on the technical evolutions to submit a file
     - New TOPASE GUI
     - Several ways to monitor

1 Switchover from SYGA to TOPASE

for:
- balancing service providers
- scheduling agents

1.1 Context and planning

Switchover from SYGA to TOPASE

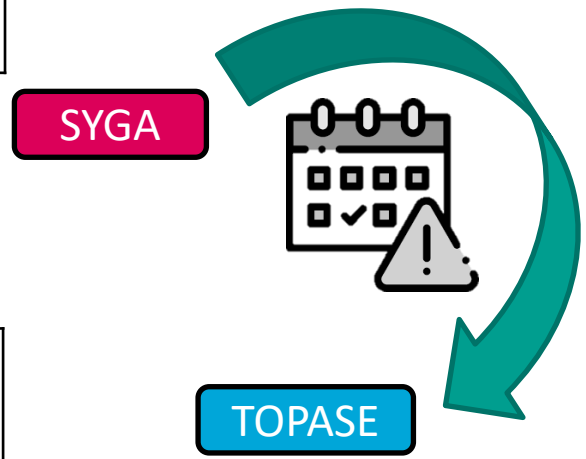
Context of the switchover from SYGA to TOPASE

Section 1 of the current terms and conditions MA-RE :

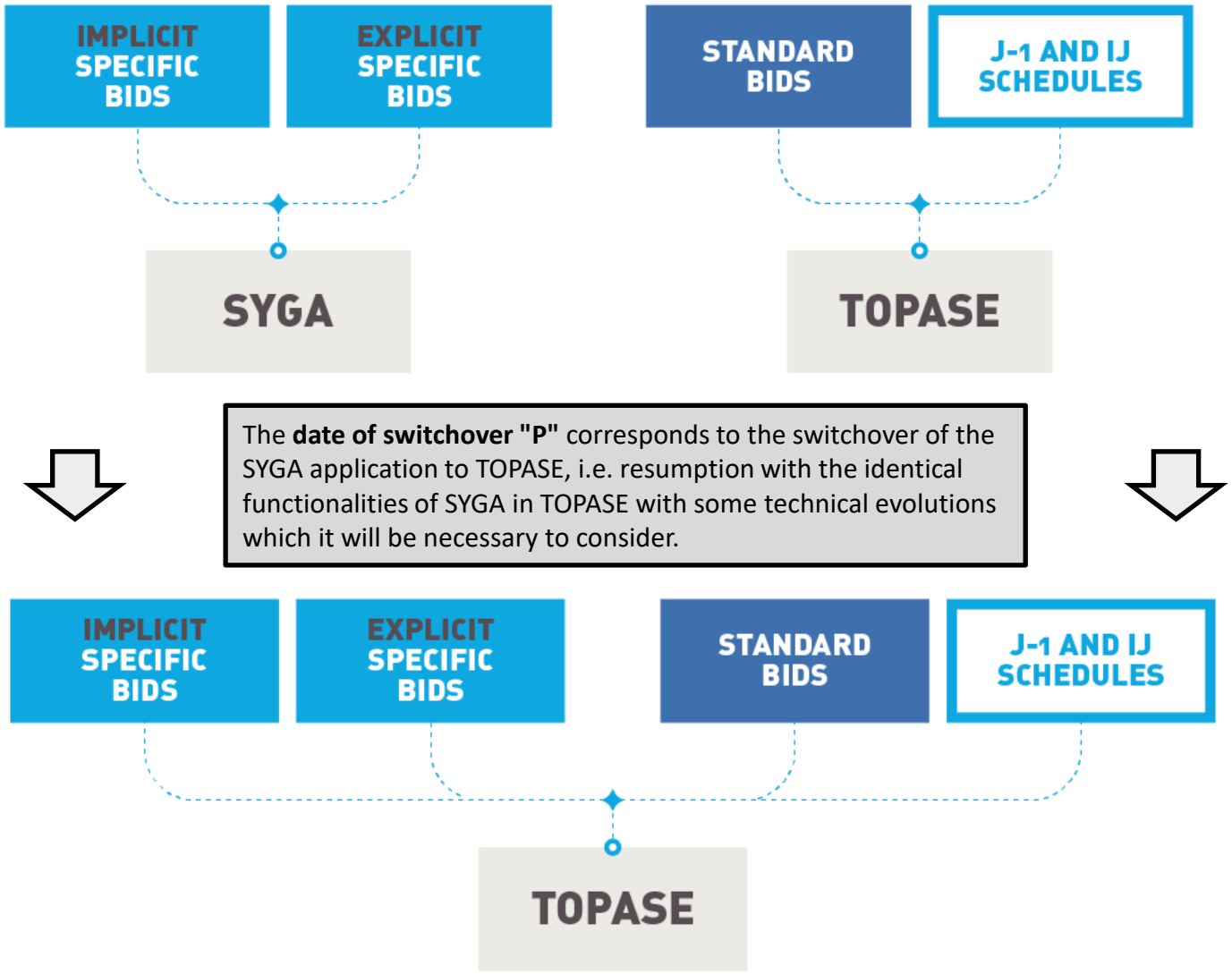
SYGA	Up to date P, application for the interface between RTE and the Balancing Service Provider. It allows: – the Balancing Service Provider to Submit, Modify and Withdraw Specific Bids, declare Bid Usage Conditions and where applicable Redeclare them; – RTE to provide Balancing Service Providers with the different files described in the IS Terms and Conditions.

The date of switchover "P" corresponds to the switchover of the SYGA application to TOPASE, i.e. resumption with the identical functionalities of SYGA in TOPASE with some technical evolutions which it will be necessary to consider.

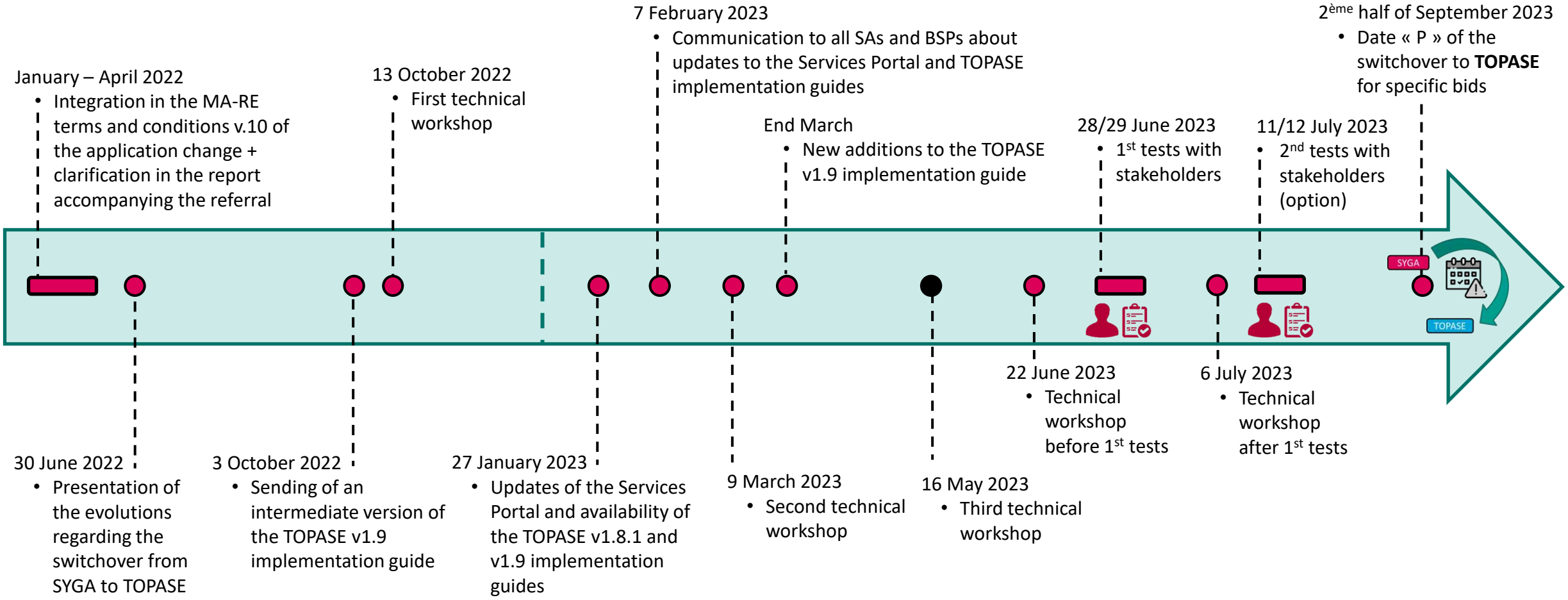
TOPASE	Application interface for Scheduling of the Balancing Mechanism between RTE, the Balancing Service Provider and the Scheduling Agent, allowing: - the Scheduling Agent to Submit and Redeclare Forecast Dispatch Schedules; - the Balancing Service Provider to Submit, Modify, and Withdraw Standard RR Bids; - from date P, the Balancing Service Provider, to Submit, Modify and Withdraw Specific Bids, declare the Bid Usage Conditions and possibly redeclare them.



Context of the switchover from SYGA to TOPASE



Indicative schedule for the switchover from SYGA to TOPASE



Next meetings

22 June

Ad hoc technical workshop to exchange one last time before the first phase of “stakeholders" tests and to specify some practical modalities for the test days.

28 - 29 June

First phase of “stakeholders" tests to test at least the process fundamentals for the various deadlines.

6 July

Ad hoc technical workshop to retroactively analyze the first phase of “stakeholder" testing and answer any technical questions that may arise from this first phase of testing (optional)

11 – 12 July

Second phase of “stakeholders" tests (optional)

1.2 Update of the implementation guide

Switchover from SYGA to TOPASE

Two versions: v1.8.1 et v1.9 of the TOPASE IG

5 updates
2 versions



v1.8.1

- Clarification on the granularity of activations on TERRE platform,
- Clarification on the possibility of negative Forecast Dispatch Schedule in the case of storage
- Update on the use of the 'Offer-Report' API
- Update on SSY controls
- Update of the price caps of TERRE bids

v1.9

- Addition of the treatment of the specific bids by TOPASE (cf. switchover SYGA to TOPASE)



The implementation guides v1.8.1 (current) and v1.9 (coming soon) are available on the Services Portal: page "Becoming a balancing service provider"



RTE has communicated this information on the preparation of the SYGA-TOPASE switchover to all the SAs and BSPs. The Services Portal has been updated to accompany this evolution and integrates the two versions of the TOPASE implementation guide (v1.8.1 in force and v1.9 with examples to prepare for the switchover) and introductory document to the GUI).

New update of the GI TOPASE v1.9

Error on the SYGA IG (current) that has been reproduced in the TOPASE IG v1.9

In the Chapter 5.1.9 - Transmitting « CT_CE » files : bid usage conditions of explicit bids

Current guide :

Example :
`CT_CE_PROVIDER_20230313_2400.csv` is a file uploaded to the gate closure at 00h00 on 13 March 2023 and 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 2023.

New modification : 

Example :
`CT_CE_PROVIDER_2023031`**`4`**`_2400.csv` is a file uploaded on 13 March 2023 **before 23h59** and 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 2023.

1.4 Update of controls on files



Switchover from SYGA to TOPASE

Clarification and vigilance on controls

Many of the controls specified in the implementation guide have not been applied by the historical tool with the consequence that erroneous files are accepted. As of the switchover, all the controls mentioned by the implementation guide will be applied.

CT_PROD_1	• Pmax: the field cannot be empty otherwise the block concerned will be rejected. • Rejection of files containing the gate of 2300 in the title of the document: only files that specify the gate of 1630 are accepted
CT_PROD_2	• If there is no indication to RTE, this is indicated by the character #. Otherwise TOPASE rejects all the lines (4) of the Balancing Entity concerned. • Rejection of files containing the gate of 2300 in the document title: only files specifying the gate of 1630 are accepted.
CT_PROD_5	All the values and formats mentioned in the implementation guide are checked: if not applied, the lines concerned are rejected. • Scheduling Entity: the existence and validity of the EDP are checked: if invalid in the repository, the line concerned is rejected. • Gradient up: the value < 0 is not allowed, in which case the line concerned is rejected, or null value (represented by an empty field, by a zero value or by a # symbol, note that filling in the field with the text "empty" is not allowed). • Gradient down: the value < 0 is not allowed, in which case the line concerned is rejected, or null value (represented by an empty field, by a zero value or by a # symbol, note that filling the field with the "empty" text is not allowed). • Pcmin : the value < 0 is not allowed in which case the line concerned is rejected, or null value (represented by a zero value or by a # symbol). • Pcomin : the value < 0 is not allowed in which case the line concerned is rejected, or null value (represented by a zero value or by a # symbol).

* New compared to the current SYGA implementation guide and the initial version of the TOPASE v1.9 implementation guide

1.4 Strategy for the switchover from SYGA to TOPASE

Guidelines

General principles for the switchover

The switchover will be carried out in relation to a date and a calendar time.

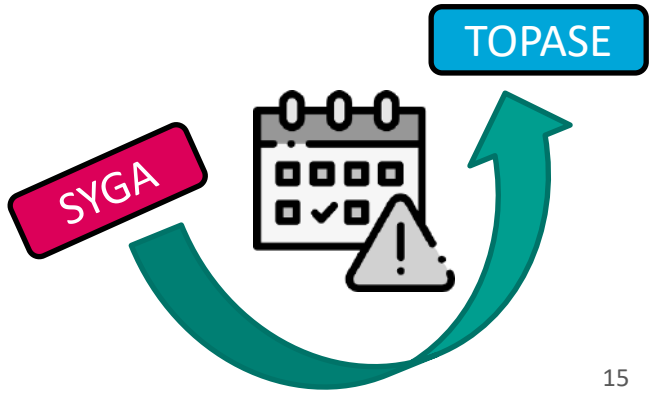
There will be no "parallel run", and the switchover will require the closing of two gates, between the last deposit gate on SYGA and the first deposit gate on TOPASE.

More specifically, on the day of the switchover and from the first gate considered :

- on notification from RTE, all specific IJ offers must be declared **solely on TOPASE** for the first two gates identified after the two closed gates
  - if all goes well, the following specific ID offer windows will be processed via TOPASE
  - in the event of a **roll back**, notified by RTE, the BSP must declare the IJ offers **on SYGA**
- on notification by RTE, all DA offers must be declared on TOPASE only on D for D+1:
  - if all goes well, the following D-1 specific offer windows will be processed via TOPASE
  - in the event of a **roll back**, notified by RTE, the BSP must declare the DA offers **on SYGA**

Different principles according to the deadlines:

- **Early transmission for days prior** to the changeover day D (inclusive), between D-7 and D-1
  - ❖ Transmission only in SYGA
- **Early transmission for days after** the changeover day D, between D-7 and D-2
  - ❖ Avoid transmitting offers in SYGA and TOPASE, RTE recommends not transmitting files in advance for delivery days after the changeover day, as long as the changeover has not been successfully validated

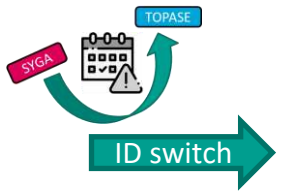


Prepare for the possibility of a roll-back



It is important that the stakeholders prepare the offer files in the event of a roll back. For example, the day before the switchover, the stakeholders prepare the data for the day of the switchover (offer files on ID and DA) so that they can be injected via the historical channels (SYGA), **only in the event of a rollback**.

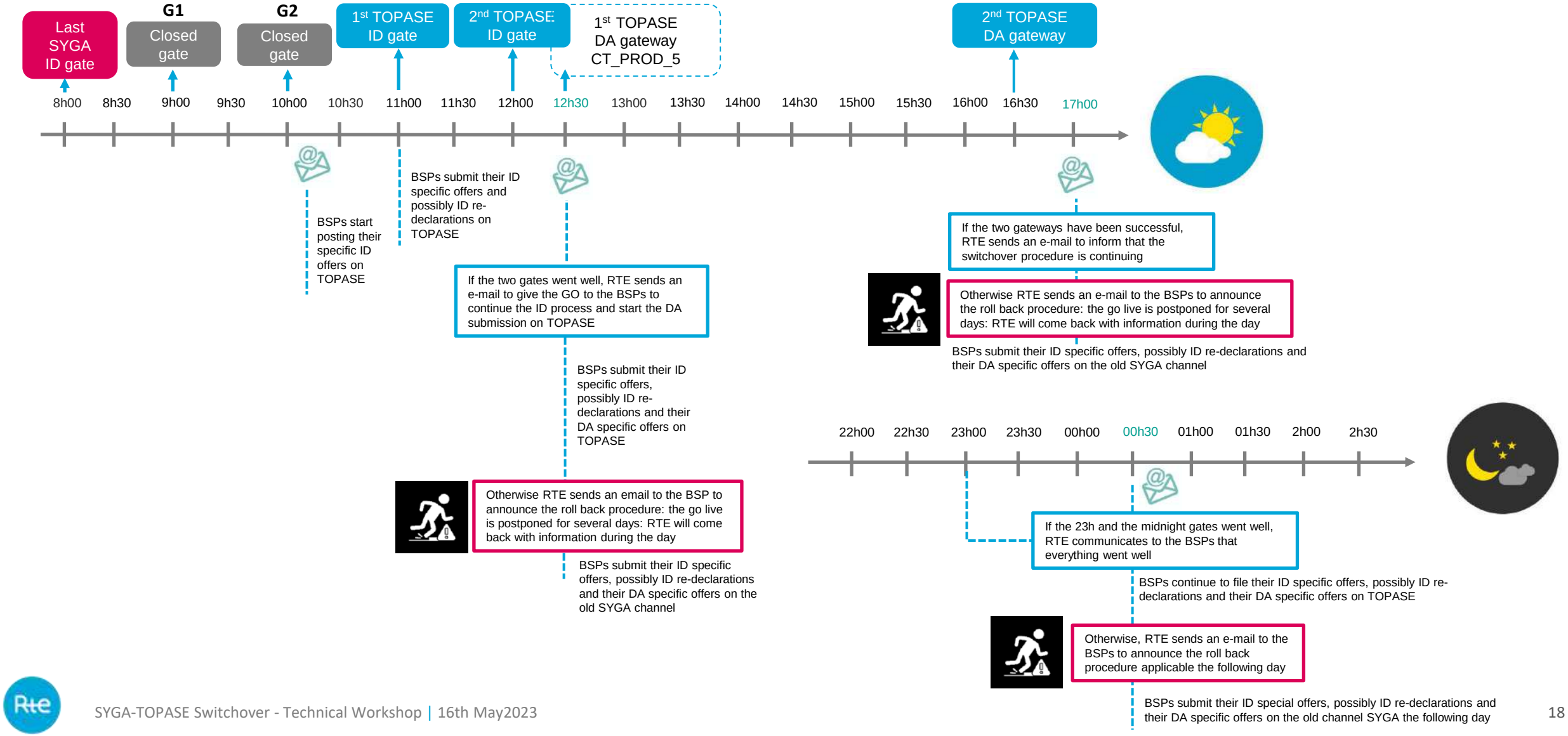
Strategy for the switchover as planned by RTE



	SYGA	TOPASE
Early deposit prior to the switchover day D (i.e. D-7 to D-2) for delivery on days prior to the switchover day D	YES	NO
Early deposit prior to the switchover day D (i.e. D-7 to D-2) for delivery on the switchover day D	YES	NO
Early deposit prior to the switchover day D (i.e. D-7 to D-2) for delivery on days after the switchover day D	NO (RTE request)	NO
Deposit in DA for delivery on the switchover day D	YES	NO
Deposit in ID, during the switchover day D, and for the gates prior to the closed gate G1	YES	NO
Deposit in ID, during the switchover day D, and for the dates after the closed gate G2	NO	YES
Deposit on the switchover day D for delivery the next day D+1 (if ID switchover validated)	NO	YES
Deposit on the switchover day D for delivery days after D+1 (i.e. D+2 to D+7)	NO	NO (RTE request)
Deposit after the switchover day D for ID (if the whole switchover is validated)	NO	YES
Deposit after the switchover day D for DA (if the whole switchover is validated)	NO	YES
Deposit after the switchover day D for delivery days in D+2 to D+7 (if the whole switchover is validated)	NO	YES

It should be noted that in order to secure the switchover, the G1 and G2 gates should be removed.

Summary of the planned switchover day



How to approach the first gate on TOPASE?

If the BSP has already submitted the offer (i.e. SOUM) beforehand in SYGA before the switchover,

- Then he must submit any modification/cancellation with "MODI" or "ANNU" in TOPASE

If the BSP has not previously submitted the offer (i.e. SOUM) in SYGA before the switchover,

- Then he must submit the first file with "SOUM" in TOPASE, before any subsequent redeclarations

1.7 Prepare for the tests and the effective switchover

Switchover from SYGA to TOPASE

Remember to request PKI certificates in pre-production !



To participate in the tests, you must have a **pre-production PKI access** for the applications concerned by the tests:

- → If you already have a pre-production PKI certificate for TOPASE you do not need to reapply.
- → If it is not the case, **please make the request with your RTE commercial contact** by specifying the names of the technical contacts who will carry out these tests.



Remember to request your certificates, and make the necessary changes, to be able to participate and pass the first tests that will be organized **on the 28/29 of June 2023**.



RTE asks all BSPs to prepare for the first phase of tests

1.6 State of play on the "pre-prod" version

Explanations and recommendations

State of play on the "pre-prod" version

- **1st preprod at the end of April** : not stable for the moment
  Deposits of CT_PROD_1 to 4, CT_CE and bids possible (subject to restriction on the date)
  - BSPs can upload files in order to test only APIs, controls on passing and non passing files and GUIs
  - not stable: CT_PROD_5 and log messages
  - under development : the mechanics of the gates and the end of the controls on the CT_PROD_5
- **2nd preprod mid June** (target)
  The CT_PROD_5 will be stable and the gates implemented for the BSPs tests
  - BSPs tests planned on June 28/29
  - BSPs tests planned on July 11/12 (option)

- **3rd preprod at the end of July**

Internal RTE business tests are planned for each pre-prod release.

Any technical questions to prepare the switchover ?

For any technical question (before the switchover), you can contact the team via (after having read the implementation guide):



rte-refontema-top@rte-france.com

1.7 Scenarios of tests to be considered

Switchover from SYGA to TOPASE

How to participate in the test days

Test windows that will be specified later but that will correspond to the critical deadlines for the submission process of the offer and constraint files, as well as for the file validation process.

At least two "Teams" teleconferences will be scheduled on the test day:

- Beginning of the day: reminder of the instructions
- End of the day: first debriefing



Klaxoon" type survey to be filled in during the day by the stakeholders which will allow to feed a first debriefing at the end of the test day.

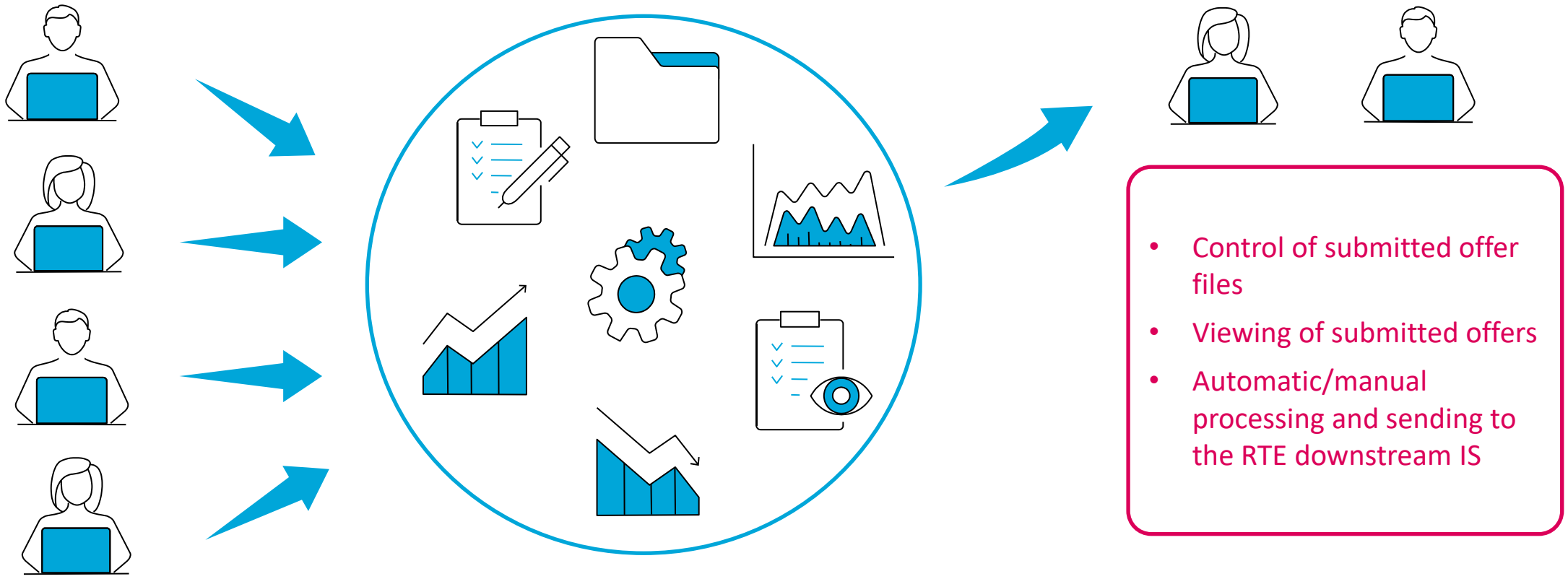
Presentation of the tests to be prepared

Process for the treatment of implicit and explicit offers on the first phase of tests

Balancing Service Providers

TOPASE – offers and usage conditions

RTE operators



- Control of submitted offer files
- Viewing of submitted offers
- Automatic/manual processing and sending to the RTE downstream IS

Test scenarios to be prepared

SCENARIO 1 Submission of explicit constraint files and/or offers for the intraday gate H

- Submission after gate H-1 and before to the gate H of the following files :
  - CT_CE
  - Offer

SCENARIO 2 Submission of explicit constraint files and/or offers for delivery on H+4

- Submission of the following files after gate H-1 and before gate H, for delivery on H+4 Dépôt après le guichet H-1 et avant le guichet H :
  - CT_CE
  - Offer

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

Test scenarios to be prepared

SCENARIO 3 Submission of explicit constraint files and/or offers, CT_PROD for the day D+1 (nominal process)

- Submission of the following files on day D before the gateway 16h30 :
  - CT_CE
  - Offer
  - CT_PROD_1
  - CT_PROD_2
  - CT_PROD_3
  - CT_PROD_4
  - CT_PROD_5

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

Test scenarios to be prepared

SCENARIO 4 Submission of explicit constraint files and/or offers, CT_PROD for the day D+1 (downgraded mode)

- Submission of the following files on day D after the gateway 16h30 :
  - CT_CE
  - Offer
  - CT_PROD_1
  - CT_PROD_2
  - CT_PROD_3
  - CT_PROD_4
  - CT_PROD_5

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

Test scenarios to be prepared

SCENARIO 5 Submission of explicit constraint files and/or offers, CT_PROD for the delivery day D+3

- Submission of the following files on day D for the delivery day D+3 :
  - CT_CE
  - Offer
  - CT_PROD_1
  - CT_PROD_2
  - CT_PROD_3
  - CT_PROD_4
  - CT_PROD_5

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

Test scenarios to be prepared

SCENARIO 6 Modification of explicit constraint files and/or offers for delivery on hour H

- Modification of the following files before the gate H-1 and before the gate H :
  - CT_CE
  - Offer (with « MODI »)

SCENARIO 6bis Modification of explicit constraint files and/or offers for delivery on day D+1

- Modification of the following files before the gateway 16h30 on day D for delivery on D+1 :
  - CT_CE
  - Offer (with « MODI »)

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

Test scenarios to be prepared

SCENARIO 7 Cancellation of explicit constraint files and/or offers for delivery on hour H

- Cancellation of the following files before the gate H-1 and before the gate H :
  - CT_CE
  - Offer (with « ANNU »)

SCENARIO 7bis Cancellation of explicit constraint files and/or offers for delivery on day D+1

- Cancellation of the following files before the gateway 16h30 on day D for delivery on D+1 :
  - CT_CE
  - Offer (with « ANNU »)

These scenarios will be confirmed, or even clarified if necessary, during the technical workshop on June 22 or in advance in the form of an e-mail communication.

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Thank you

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A Annexes

A.1 Reminder on the technical evolutions to submit a file

Bascule SYGA vers TOPASE

File deposit by API or via GUI

API

In M2M, the submission of a bid file (or constraints) relies on the single API **/v1/documents/specific-offers**

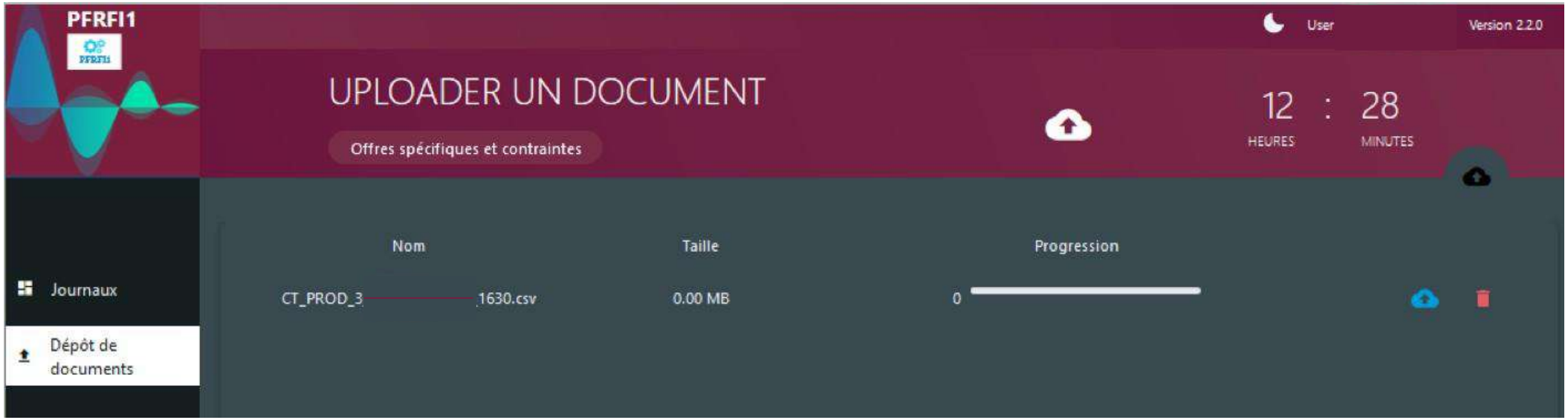
Files: CT_PROD_1_INITIAL, CT_PROD_2_INITIAL, CT_PROD_3, CT_PROD_4, CT_PROD_5, CT_CE, ANNU_CT_PROD_1_INITIAL, ANNU_CT_PROD_2_INITIAL, ANNU_ CT_PROD_3, ANNU_ CT_PROD_4, ANNU_ CT_CE

Usage examples: (*UUID is a random character string that must not be present in the submitted file, its absence causes the error 401)*

POST https://secure-apps-dev.services.rte-france.com/topase-micro-integ-api/api/v1/documents/specific-offers -H 'Content-Type: multipart/form-data; boundary=UUID' -F 'file=@CT_PROD_1_INITIAL_acteur_20220726_1630.csv'
POST https://secure-apps-dev.services.rte-france.com/topase-micro-integ-api/api/v1/documents/specific-offers -H 'Content-Type: multipart/form-data; boundary=UUID' -F 'file=@acteur20220726.offre'

GUI

The GUI allows the user to submit their specific bids, as well as the associated CT-CUOs via a single point of entry using the "Document Submission/Dépôt de documents" function.



Please note: the screenshots may have different colors than the ones that will be used in the final production version

A.2 New GUI for TOPASE

Switchover from SYGA to TOPASE

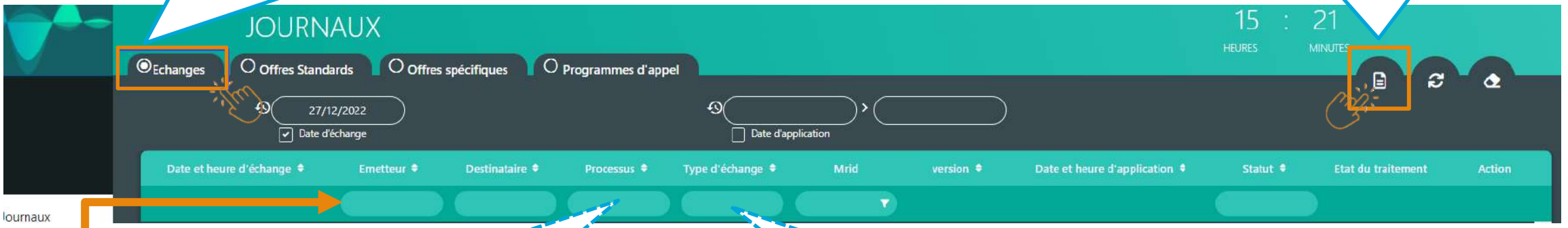
Exchanges board

The exchange log traces the different exchanges or events with:

- Processus = SPECIFIQUE
- Type d'échange = {Dépôt CT_CE, Dépôt CT_PROD, Dépôt d'offre spécifique, Annulation de CT}

The other fields remain on the basic principle of the application.

It is also possible from this screen to download the logs of a whole day or the result of a file submission individually



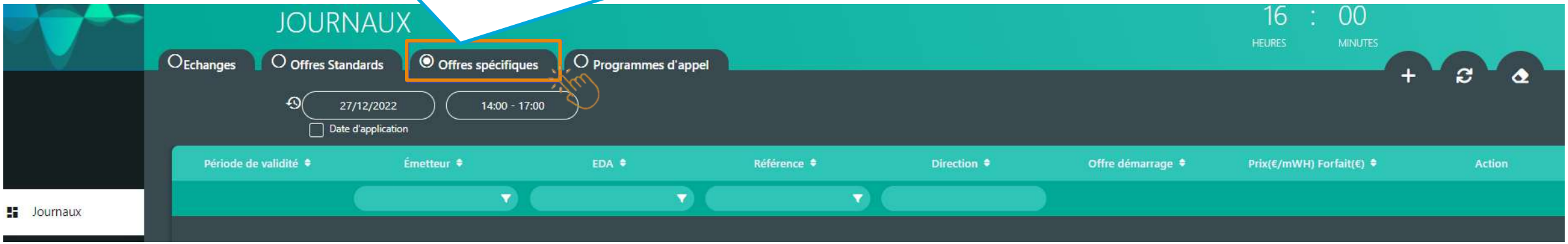
- Process
- Exchange type

Tip:To delete a search criteria, point the mouse and use the ←

Specific bids board

The specific offers log allows the user to view :

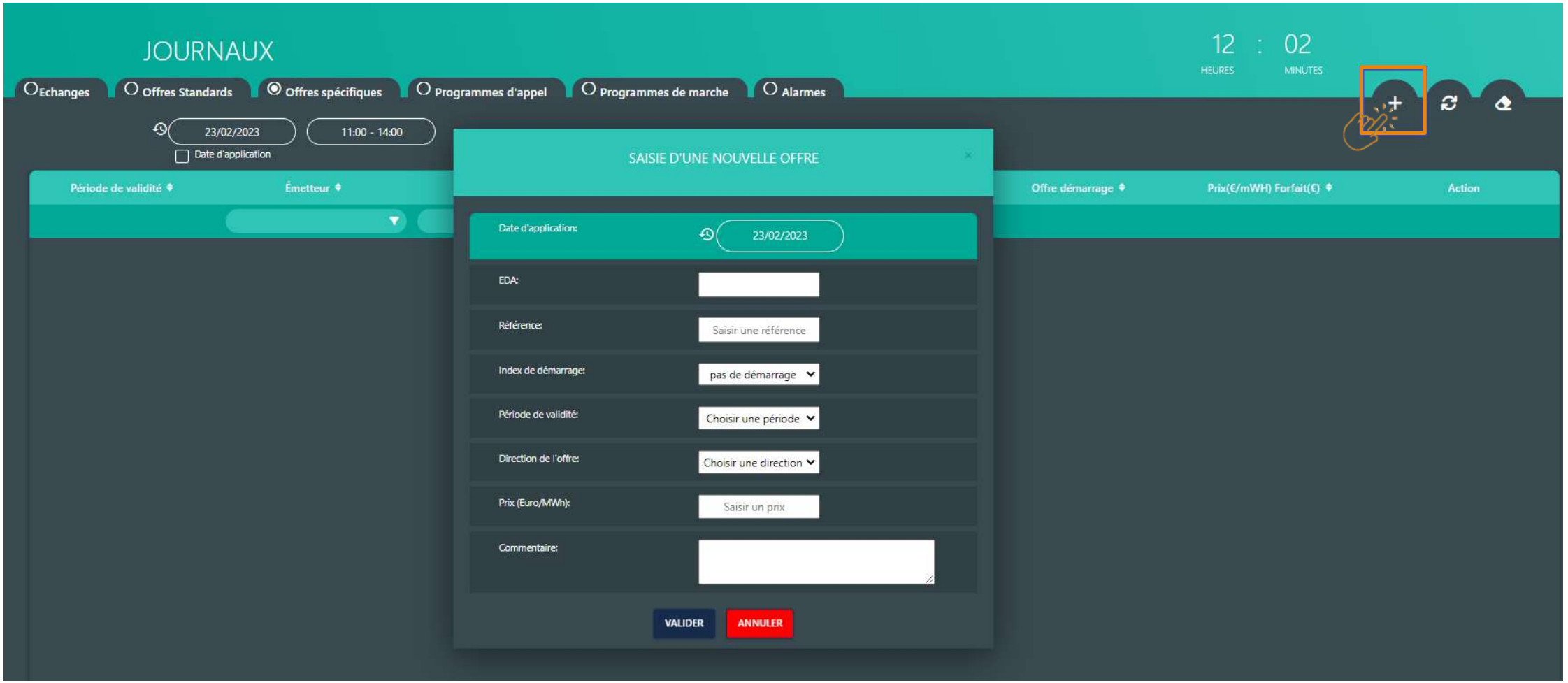
- the list of specific bids (so-called normal bids and exceptional bids (CT_PROD_3) submitted and valid.
- the detailed information of each offer



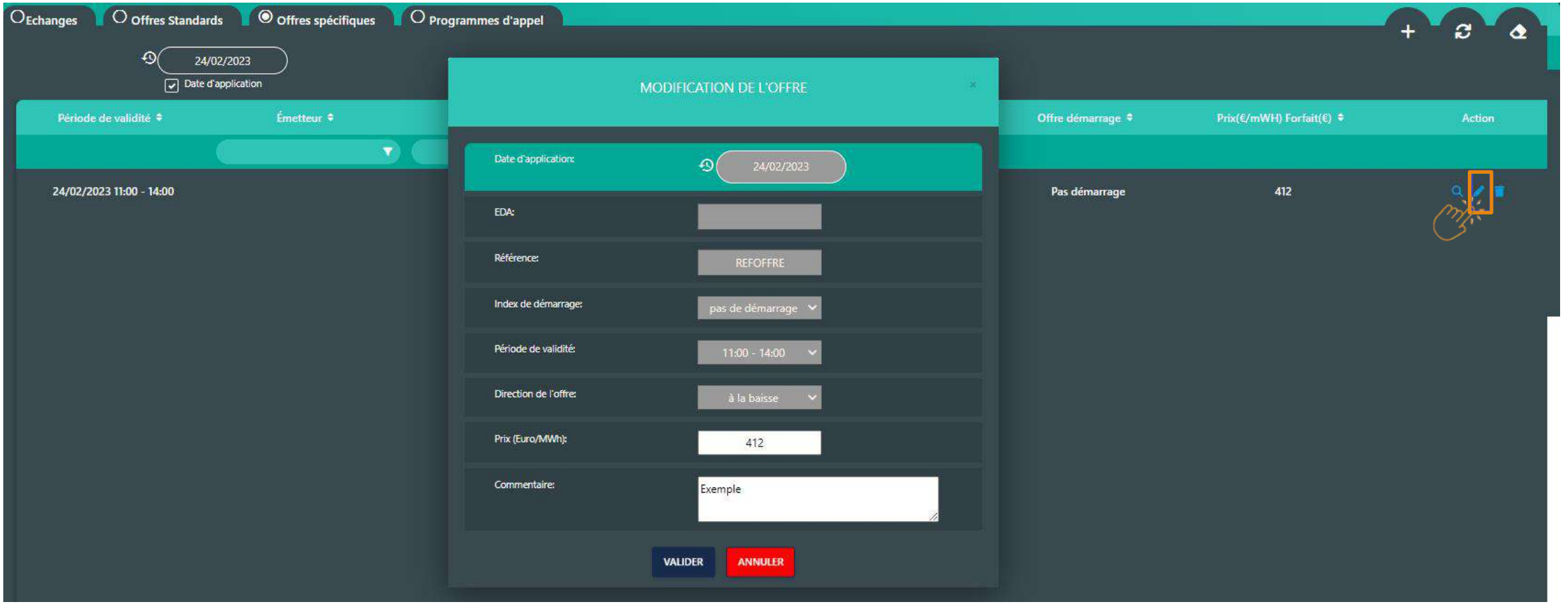
On this same interface it is possible to :

- enter a new bid,
- modify or delete a bid already submitted in compliance with business rules.

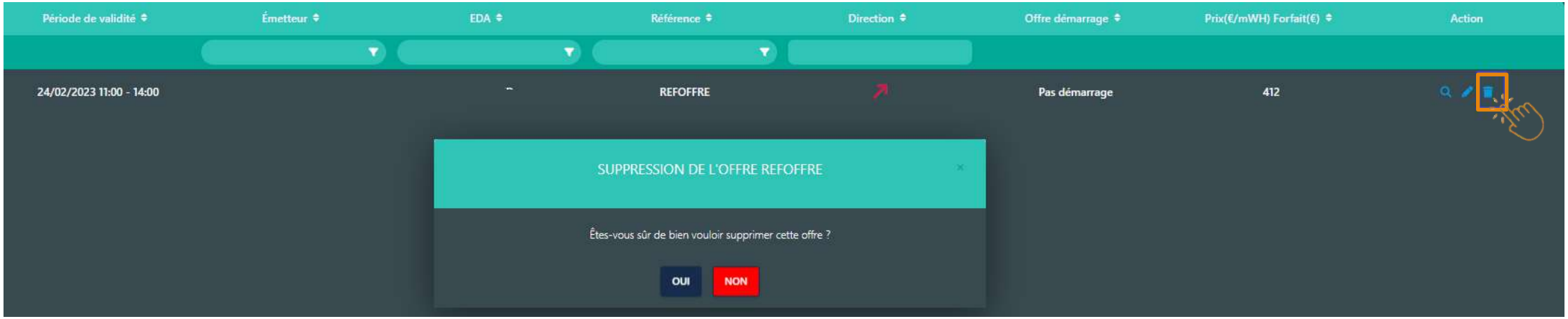
Specific bids board : submit a new bid



Specific bids board : modify a bid



Specific bids board : delete/withdraw a bid



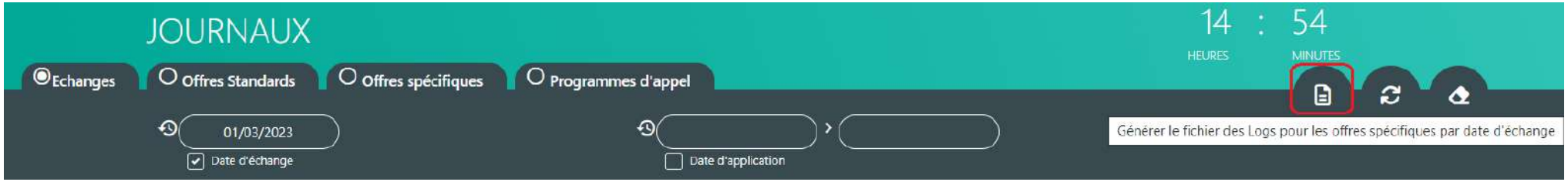
A.3 Several ways to monitor

Switchover from SYGA to TOPASE

Log message retrieval - daily report

The log messages are a daily report of the exchanges by BSP/SA for a given date. They can be retrieved as a csv file in two different ways (GUI or API):

GUI Action in the Exchange Board: button labeled "Logs" with tooltip "Generate today's log file"



API M2M call via an API: download logs for a given date in parameter

/api/v1/documents/specific-offers/messageLogs

Usage example : GET https://<url externe>/topase-api/api/v1/documents/specific-offers/messageLogs?applicationDate=2023-02-28

Structure of the downloaded file content

Horodate of the exchange; Severity; Wording of the error; Date; Type of the file

Example :

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;



Log message retrieval - unitary

GUI



The exchange board traces the various file submissions with, for each of them, a processing report accessible in a unitary manner

A GUI function is also available to retrieve all the log messages for a chosen day, in the form of a csv file. (see slide log messages - daily report).

API

This function will also be exposed in M2M with an API.

Usage example:

GET https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers/messageLogs?applicationDate=2022-10-13