Le réseau de transport d'électricité

SYGA-TOPASE switchover Technical Workshop

6th July 2023

for:
- balancing service providers
- scheduling agents

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Ordre du Jour

PART A : for balancing service providers and scheduling agents

1. Switchover from SYGA to TOPASE

    - Background and indicative schedule
    - Documentation to prepare the switchover
    - Stakeholders' tests to prepare the switchover
        - Debriefing and Q/A on the June 28 and 29 tests
        - PKI certificates
        - Scope of TOPASE "pre-production" version
    - SYGA-TOPASE switchover strategy

1 Context and indicative planning

SYGA-TOPASE switchover

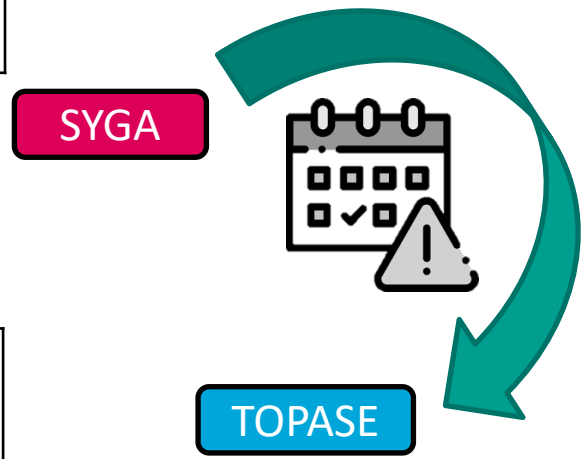
Context of the switchover from SYGA to TOPASE

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

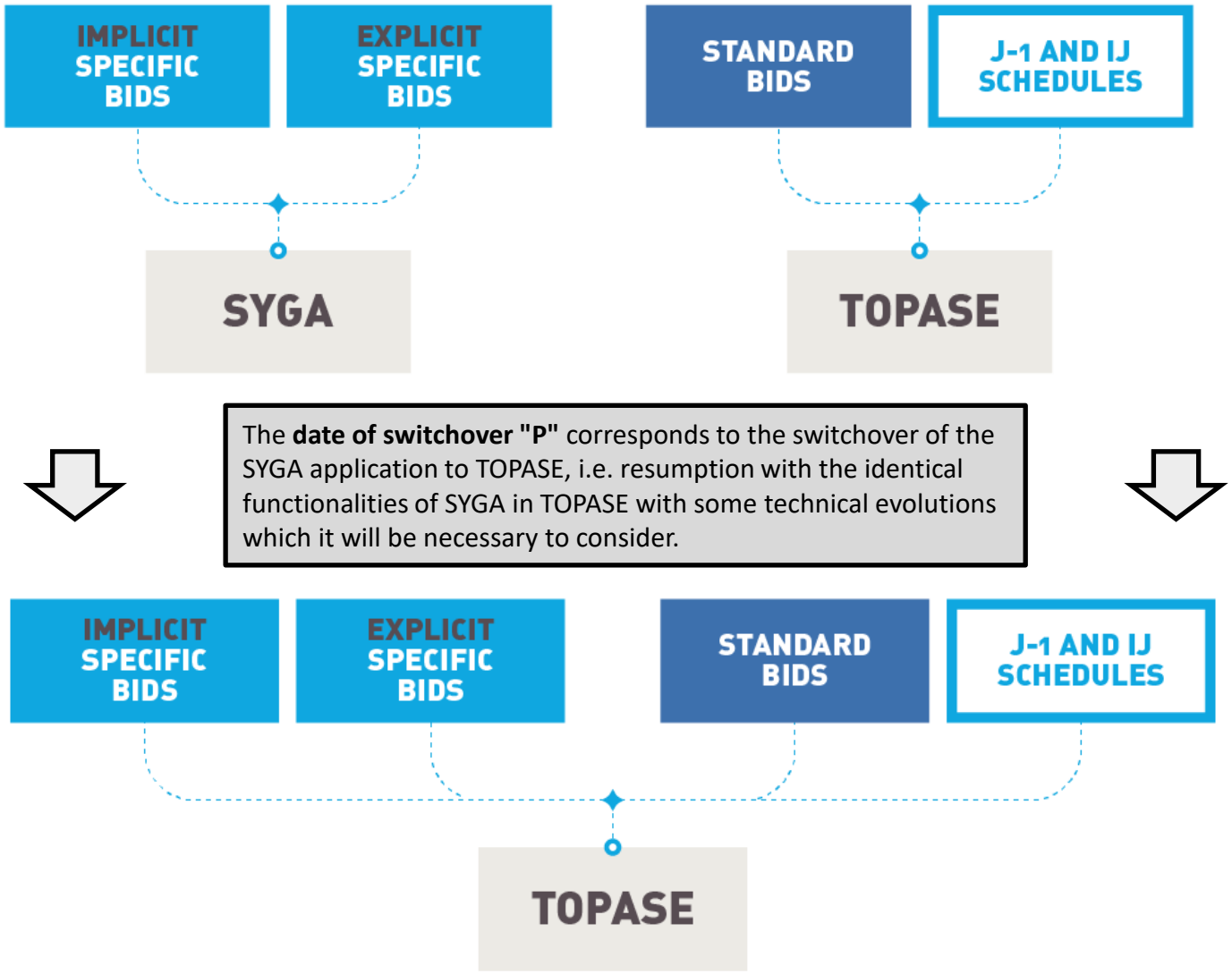
SYGA	Up to date P, application for the interface between RTE and the Balancing Service Provider. It allows: – the Balancing Service Provider to Submit, Modify and Withdraw Specific Bids, declare Bid Usage Conditions and where applicable Redeclare them; – RTE to provide Balancing Service Providers with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

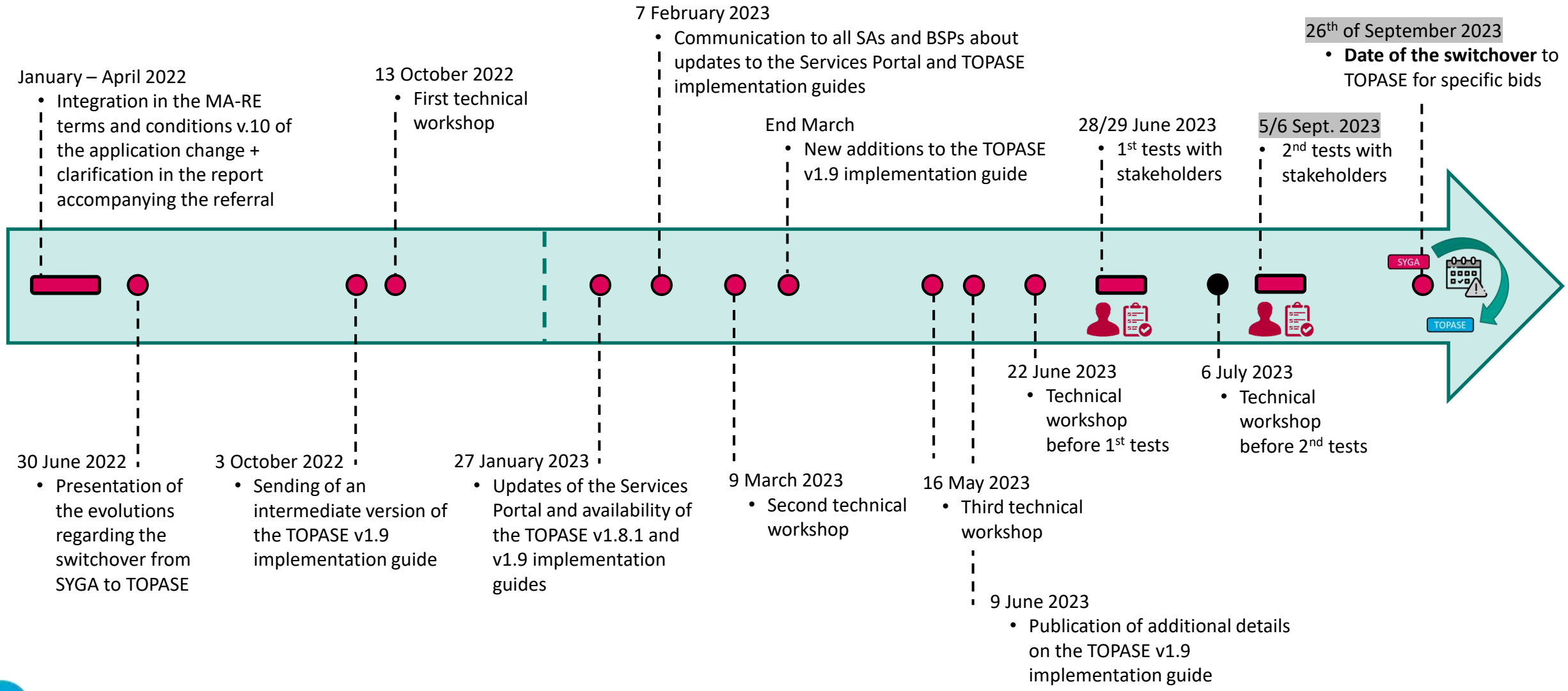
TOPASE	Application interface for Scheduling of the Balancing Mechanism between RTE, the Balancing Service Provider and the Scheduling Agent, allowing: - the Scheduling Agent to Submit and Redeclare Forecast Dispatch Schedules; - the Balancing Service Provider to Submit, Modify, and Withdraw Standard 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 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

5 - 6 Sept.

postponement of the coordinated testing phase to obtain a corrected version of TOPASE

Second phase of “stakeholders" tests to carry out free and coordinated tests

2 Documentation to prepare the switchover

SYGA-TOPASE switchover

Documentation to prepare the switchover

TOPASE v1.8.1 implementation guide

- Document with IT rules for the current version of TOPASE (i.e. production environment)

TOPASE v1.9 implementation guide

- Document with IT rules for TOPASE version that will be applied to manage the specific offers (cf. SYGA-TOPASE switchover)
  - More details will be integrated in the IG by the end of July

Stakeholders' tests document

- Descriptive document for the first phase of testing with stakeholders scheduled for June 28 and 29

Introduction to the GUI TOPASE

- Document with visuals introducing to the TOPASE GUI and its functionnalities

The implementation guides v1.8.1 (current) and v1.9 (coming soon), as well as the guide introducing to the TOPASE GUI, are available on the Services Portal: page "Transmission of balancing energy bids"

The material used for the technical workshops are available on the Concerte dedicated page.
The most updated information are integrated in the most recent technical workshop.

3 Stakeholders' tests to prepare the switchover

SYGA-TOPASE switchover

3.1 Debrief on the first phase of coordinated testing

SYGA-TOPASE switchover

Debrief on the first phase of coordinated testing

- Overall, all BSPs were able to access the pre-production environment for testing.
- This coordinated testing phase made it possible to help BSP who were unable to upload files.
- 21 BSP successfully managed to upload/modify (and sometimes cancel one by one – this bug is being corrected) D-1 files
- 17 BSP successfully managed to updload/modify (and sometimes cancel one by one – this bug is being corrected) ID files
- The sending of the activation order test was cancelled due to a technical problem with the environment.

- BSP shared points of vigilance that are currently being corrected (see slide 16).



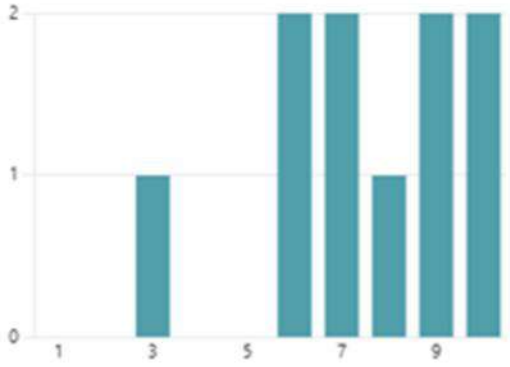
Indicative percentage based on the participation of BSP observed over one day and compared with the production environment.

Debrief on the first phase of coordinated testing

37. Sur une échelle de 1 à 10, merci d'indiquer votre niveau de confiance concernant votre capacité à réaliser les actions du processus J-1 sur l'application TOPASE (cf. ce qui a été testé ce mercredi 28 juin) ? 10 étoiles étant la note de confiance maximale

Plus de détails Aperçus

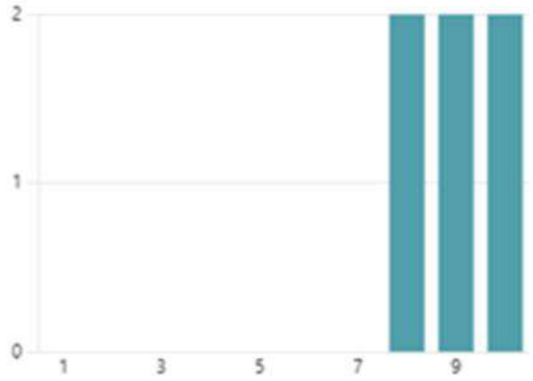
7.50
Évaluation moyenne



35. Sur une échelle de 1 à 10, merci d'indiquer votre niveau de confiance concernant votre capacité à réaliser les actions du processus IJ sur l'application TOPASE (cf. ce qui a été testé ce jeudi 29 juin) ? 10 étoiles étant la note de confiance maximale

Plus de détails

9.00
Évaluation moyenne





Around 80% of active BSPs

Indicative percentage based on the participation of BSP observed over one day and compared with the production environment.

Debrief on the first phase of coordinated testing

Corrections in progress following bugs identified during the test day:

- Offer price
  - Correction of price cap: €10k/MWh instead of €15k/MWh (cf. IG v1.9 TOPASE)
  - Correction of error message when price limit exceeded (no value to be written)
  - Correction of blocking limit on start-up package
  - Enable price changes after 4:30pm on D-1 and on ID gates (see pencil icon on GUI)
- File cancellation
  - Allow several offers to be cancelled at the same time with one file (and not one by one)
  - Remove cancelled offers from exclusivity control exercised by the TOPASE application
- Respect of neutralization delay and price slot
  - Correct the control so as not to allow modifications in the operational window or during a price slot that has already begun
- Others
  - Set file validity start and end times in UTC time (not local time)
  - Prevent file deposit on GUI if type is not selected
  - Correct the BE identification problem in file CT_PROD_5
  - Fix the technical problem that will allow tests to be pushed to the point of sending an order

Points of vigilance for BSPs:

- You are not allowed to upload excel files; you must upload csv files. What's more, opening a csv file with excel renders the file erroneous. You should therefore avoid using excel (which is the same advice as for SYGA at present).
- Pay close attention to the IS rules applicable to file format and the content of the fields they contain (see implementation guide v1.9).

Main errors to avoid !

➢ File upload via API

⚠ Incorrect use of this API found:

POST https://secure-apps-dev.iservices.rte-france.com/topase-api/api/v1/documents/specific-offers -H 'Content-Type: multipart/form-data' -F 'File=@CT_PROD_1_INITIAL_acteur_20220726_1630.csv'

✅ This API requires the use of a <UUID> end tag for the submitted file, and compliance with the following parameters

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

➢ Retrieve Log message for a given day (submission report for files submitted)

⚠ A misuse of this API was as follows:

GET https://<url externe>/topase-api/api/v1/documents/specific-offers/messageLogs/2023-06-28

✅ This API requires the use of an applicationDate variable, unlike the indication in the 1st version of the implementation guide

GET https://<url externe>/topase-api/api/v1/documents/specific-offers/messageLogs?applicationDate=2023-06-28

➢ Numerical fields

⚠ A numeric field with the value " **,01**" or "**0.01**", for example, is incorrect.

✅ Numerical fields, such as the price of an offer, must respect the formalism of numerical values such as "**0,01**".

3.2 PKI certificates

SYGA-TOPASE switchover

PKI certificates to get

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 the pass tests

RTE asks all BSPs to prepare for the two phases of tests

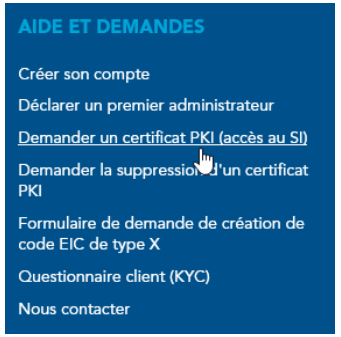
Don't forget to request your production PKI certificates for TOPASE if you don't already have one for this environment! If you already have one, don't forget to check its validity!
Accessing market applications - RTE Services Portal (services-rte.com)

The PKI certificate for TOPASE in production is <u>different</u> from the PKI certificate for TOPASE in pre-production.

Ask for the creation of your PKI certificate for production environment !

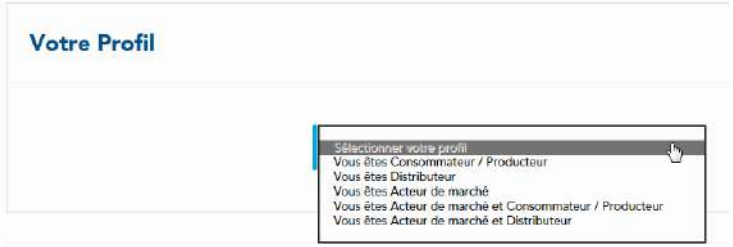
Prerequisite: the applicant must have a partner account on the RTE Services Portal. **To modify a PKI certificate, please contact your RTE commercial contact. The online request form only concerns the creation of new certificates.**

You must log in to your account on the RTE Services Portal before completing our online form. The link is also available at the bottom of the Services Portal page, under HELP AND REQUESTS.



This service is secured by double authentication. Once connected, you must enter the code received by email.





Your profile and role are essential for automatically assigning service authorizations in line with your activities. Please pay particular attention to this when entering your details.



You will then be able to request access for one or more users.



4.2 Scope of TOPASE preproduction version

SYGA-TOPASE switchover

Scope of TOPASE preproduction version

On the pre-production environment, the BSP can make their tests according to the available version of TOPASE.

Scope of the version currently available in the pre-production environment :

- Deposit of CT_PROD_1 to 4, CT_CE and offer files
- Deposit of CT_PROD_5
- Stabilized access to log messages
  - WARNING: missing extension csv on MessageLog of CT_CE



available on Concerte

- MessageLog" formatting to reflect that of SYGA (but only gravity I and E)
- Timing of counters and distribution to the rest of the activation chain
- Improved offer log (filtering, sorting)
- Improved reliability of consistency checks
  - WARNING: some anomalies persist and are currently being addressed
- Modification/cancellation of offers within applicable deadlines
- Inability to submit CT_CE when an ID gate is closed

Meaning:

- Scope of the first version in pre-production environment (du 21st April 2023)
- New functions with the second version un pre-production environment (du 21st June 2023)

A third version is foreseen around 21 July to correct the remaining anomalies.
RTE will send you an e-mail notification to inform you as soon as possible.

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

5 SYGA-TOPASE switchover strategy

SYGA-TOPASE switchover

5.1 Main principles for the switchover

Bascule SYGA vers TOPASE

Main principles for the switchover

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

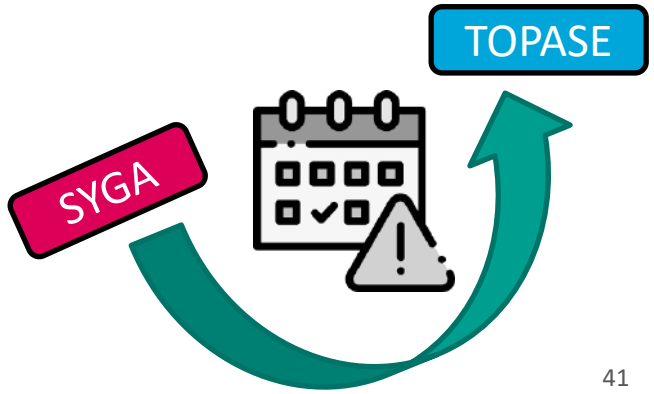
There will be no "parallel run", and the switchover will require the closing of two gates, between the last deposit gate on SYGA and the first deposit gate on TOPASE.

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



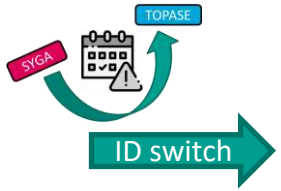
It is important that the stakeholders prepare the offer files in the event of a roll back. For example, the day before the switchover, the stakeholders prepare the data for the day of the switchover (offer files on ID and DA) so that they can be injected via the historical channel (SYGA), **only in the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

Starting a process of rollback will be done with two notifications from RTE :

- a first e-mail to notifiy of the start of the rollback process
- a second e-mail to notify of the effectivity of the rollback and the moment since the historical channel (SYGA) is operating again

If a technical incident makes the rollback impossible, RTE might have to notifiy of the start of the « rescue » mode for the D-1 process, only based on a dedicated notification.

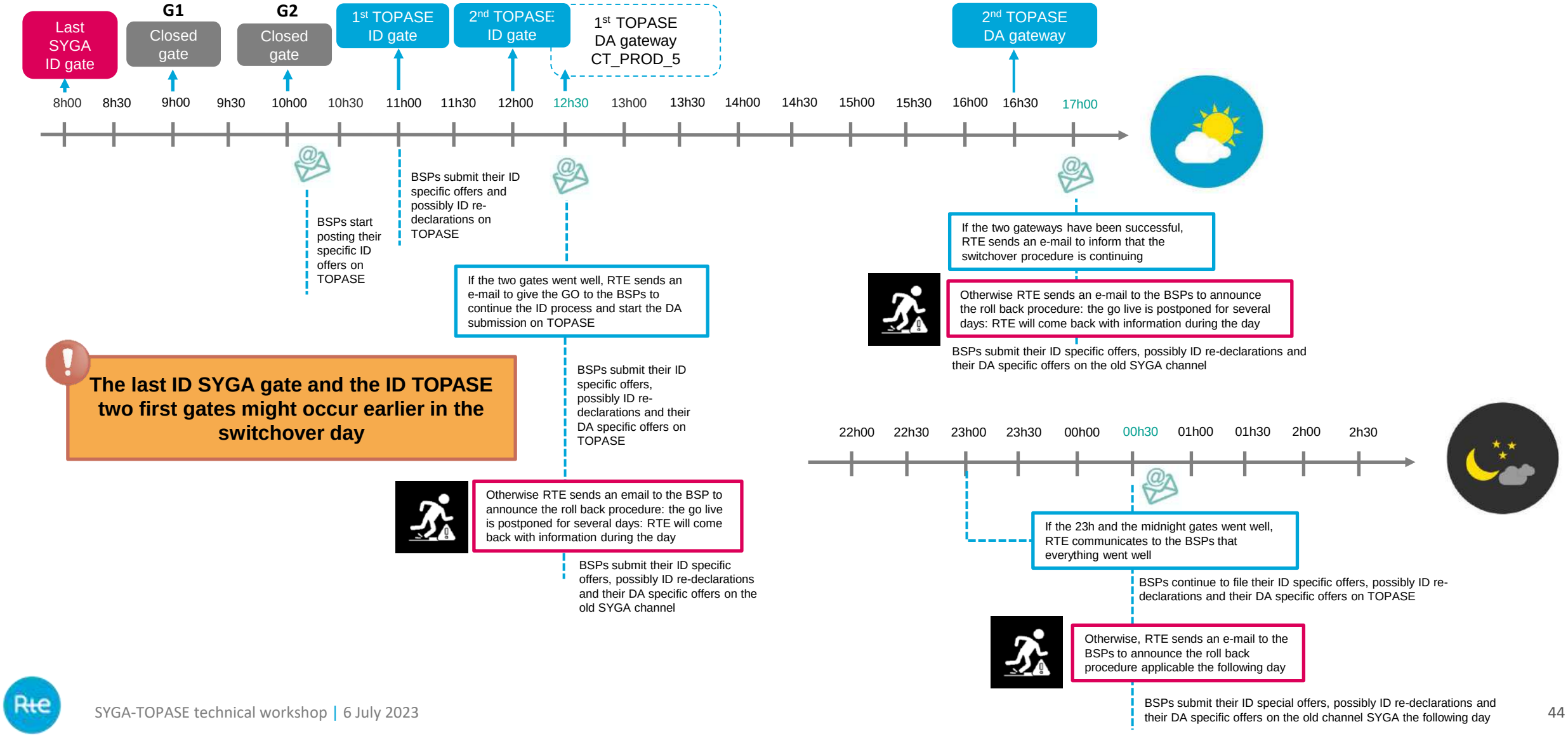
Strategy for the switchover as planned by RTE



	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



The last ID SYGA gate and the ID TOPASE two first gates might occur earlier in the 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

According to the terms mentioned in TOPASE v1.9 implementation guide

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Thanks

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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**

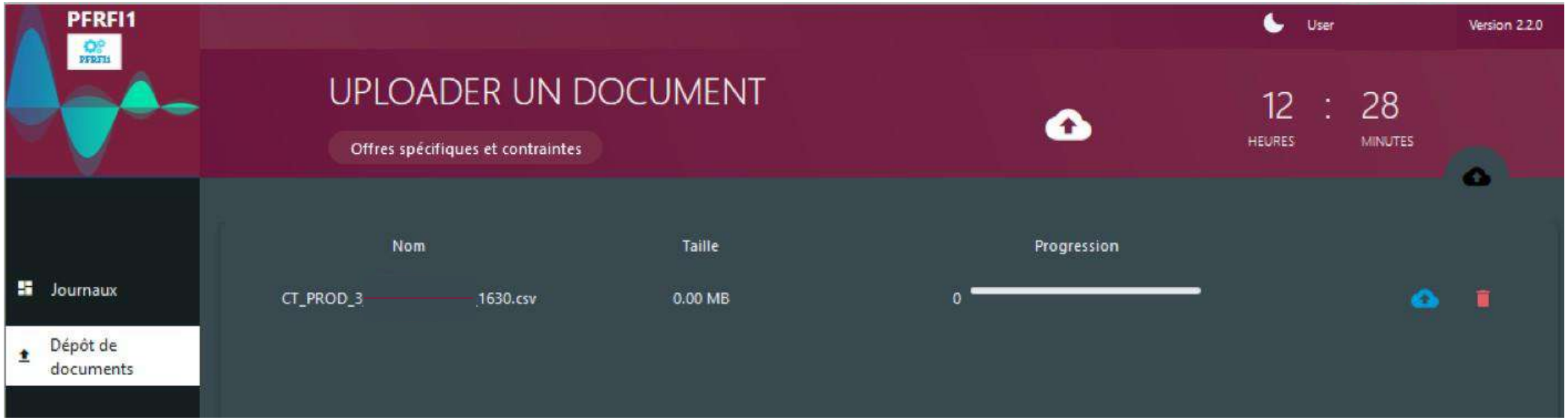
Files: CT_PROD_1_INITIAL, CT_PROD_2_INITIAL, CT_PROD_3, CT_PROD_4, CT_PROD_5, CT_CE, ANNU_CT_PROD_1_INITIAL, ANNU_CT_PROD_2_INITIAL, ANNU_ CT_PROD_3, ANNU_ CT_PROD_4, ANNU_ CT_CE

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.iservices.rte-france.com/topase-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.iservices.rte-france.com/topase-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

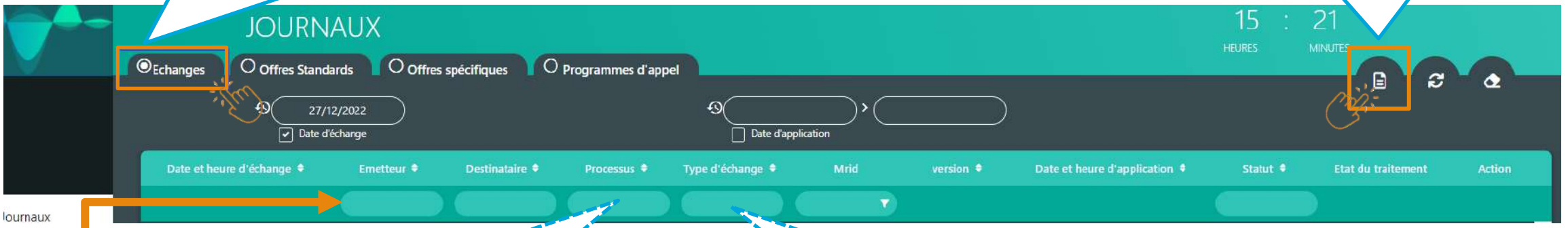
Exchanges board

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



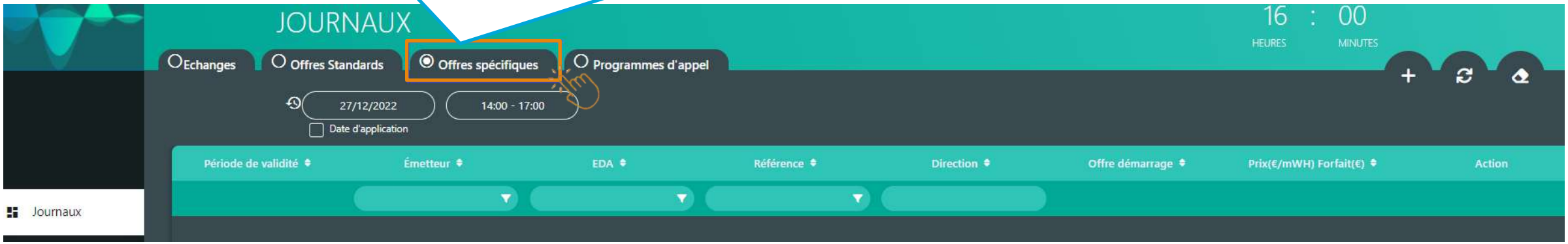
- Process
- Exchange type

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

Specific bids board

The specific offers log allows the user to view :

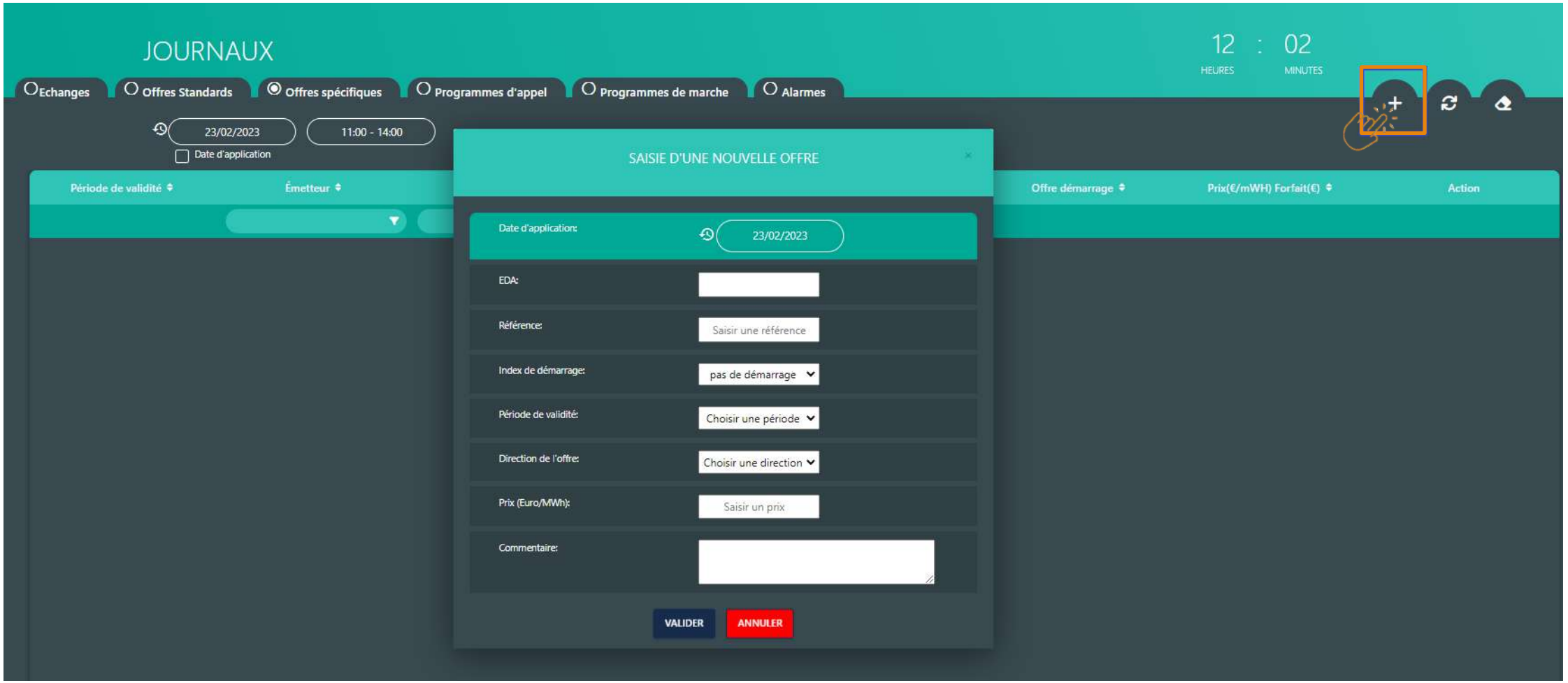
- the list of specific bids (so-called normal bids and exceptional bids (CT_PROD_3) submitted and valid.
- the detailed information of each offer



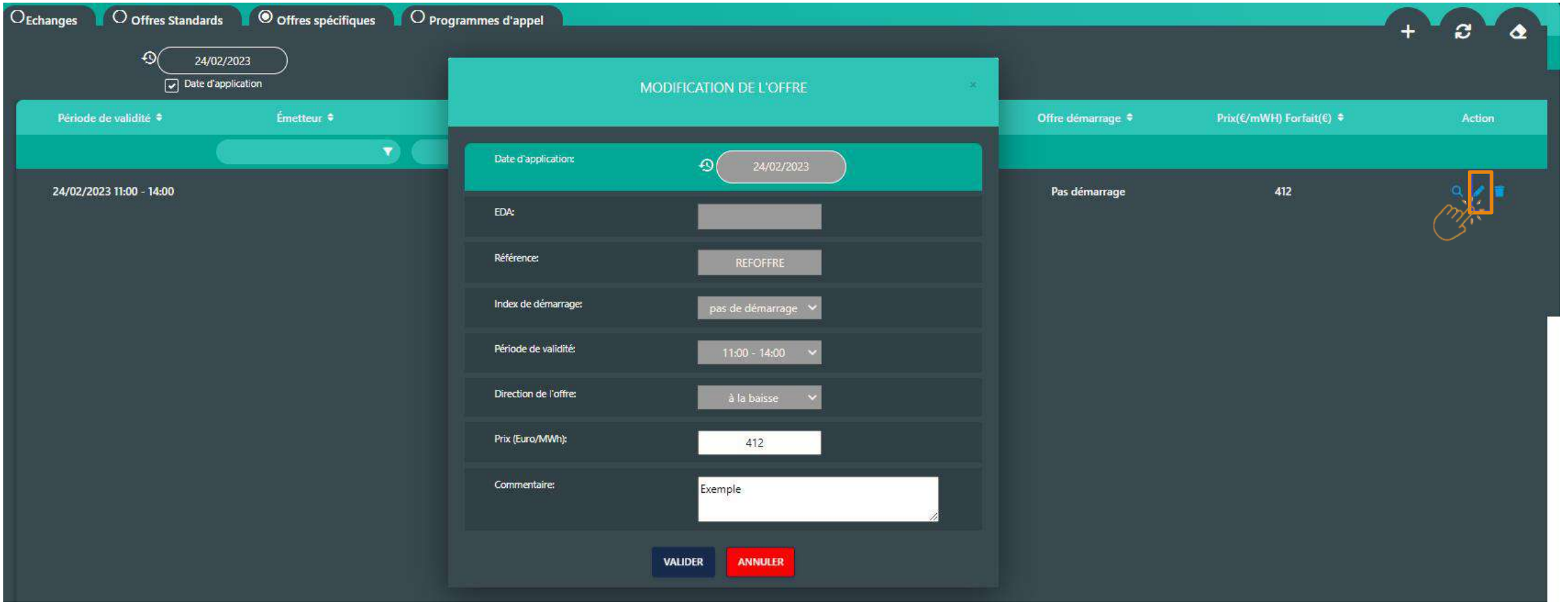
On this same interface it is possible to :

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

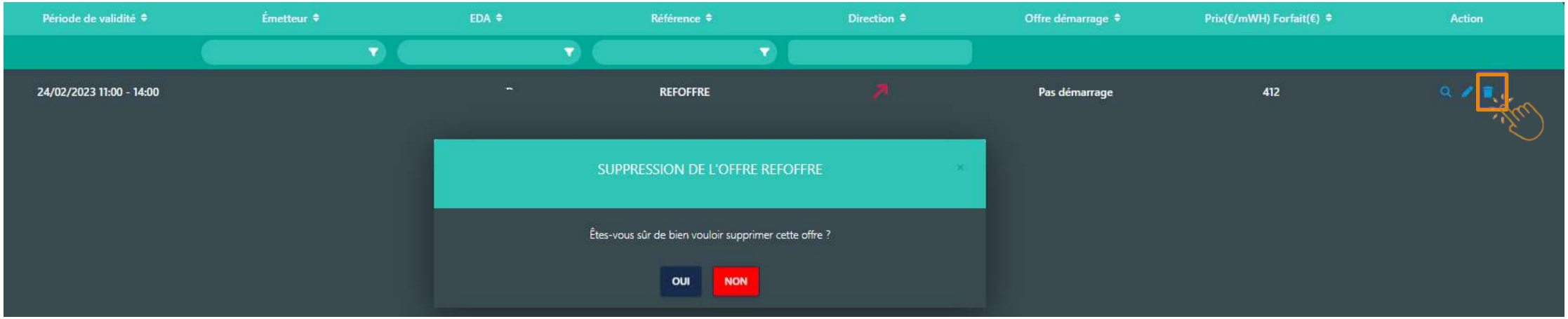
Specific bids board : submit a new bid



Specific bids board : modify a bid



Specific bids board : delete/withdraw a bid



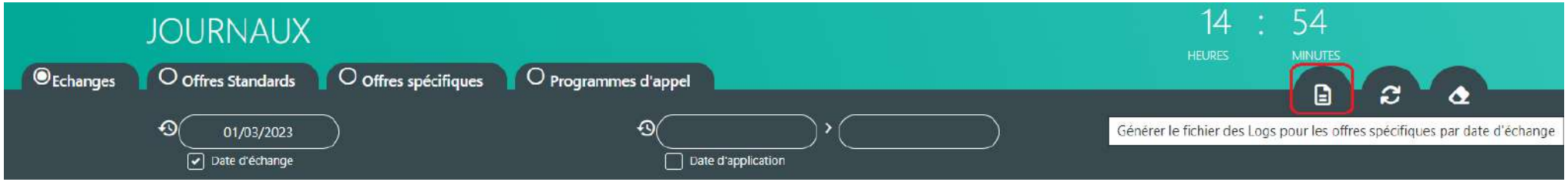
A.3 Several ways to monitor

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