



USER GUIDE DOCUMENTATION FOR:

Long-Term Flow-Based Allocation Simulation Platform

JAO • 2 RUE DE BITBOURG L-1273 • LUXEMBOURG-HAMM • LUXEMBOURG

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1.1	19.02.2024.	Zlatko Ofak	Add JAO helpdesk contact info and update views
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1 Introduction

This document provides a description of Long-Term Flow-Based Allocation (LTFBA) Simulation Platform web interface which allows users to verify the flow-based capacity parameters and simulate long-term flow-based auctions. Tool is available for all market participants, transmission system operators and JAO users.

Should you require further support, please contact JAO Helpdesk at the following email addresses:

- TSOs: helpdesk.tso@jao.eu
- Market Participants: helpdesk@jao.eu

2 Login

By navigating to the LTFBA Simulation Platform web address, user is redirected to login page.

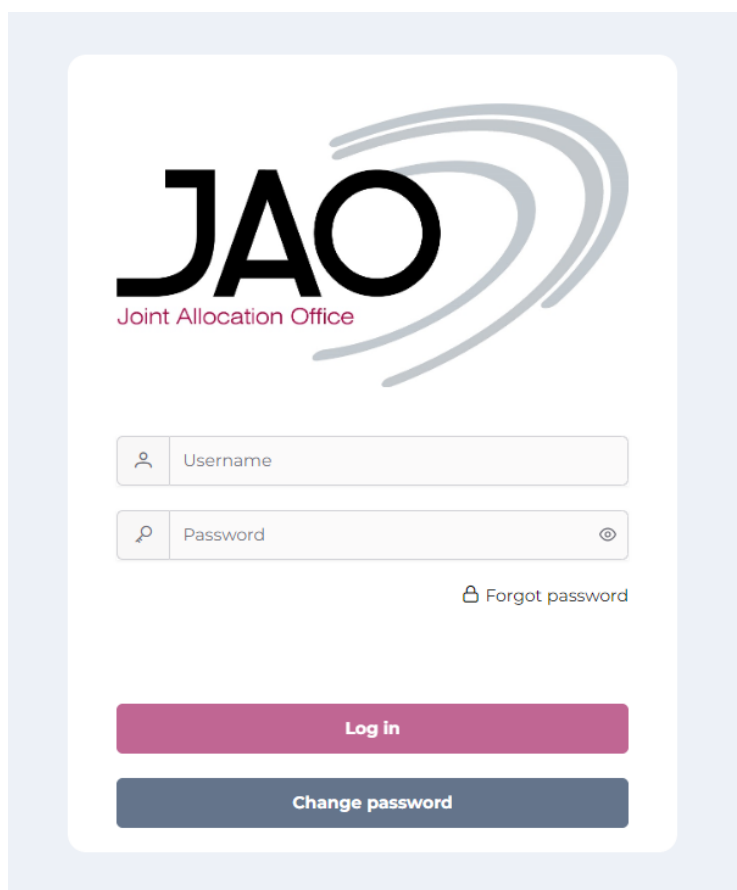
The image shows a login form for the JAO (Joint Allocation Office). At the top, there is a logo with the letters 'JAO' in large, bold, black font, and 'Joint Allocation Office' in a smaller, pink font below it. To the right of the text is a stylized graphic of three curved, overlapping lines in shades of grey. Below the logo, there are two input fields: 'Username' with a person icon on the left, and 'Password' with a magnifying glass icon on the left and an eye icon on the right. Below the password field is a link that says 'Forgot password' with a small lock icon. At the bottom of the form, there are two buttons: a pink button labeled 'Log in' and a dark grey button labeled 'Change password'.

Figure 1 LTFBA Simulation Platform login form

LTFBA Simulation Platform User Guide

By entering correct credentials, i.e., username and password, tool automatically redirects user to the home page.

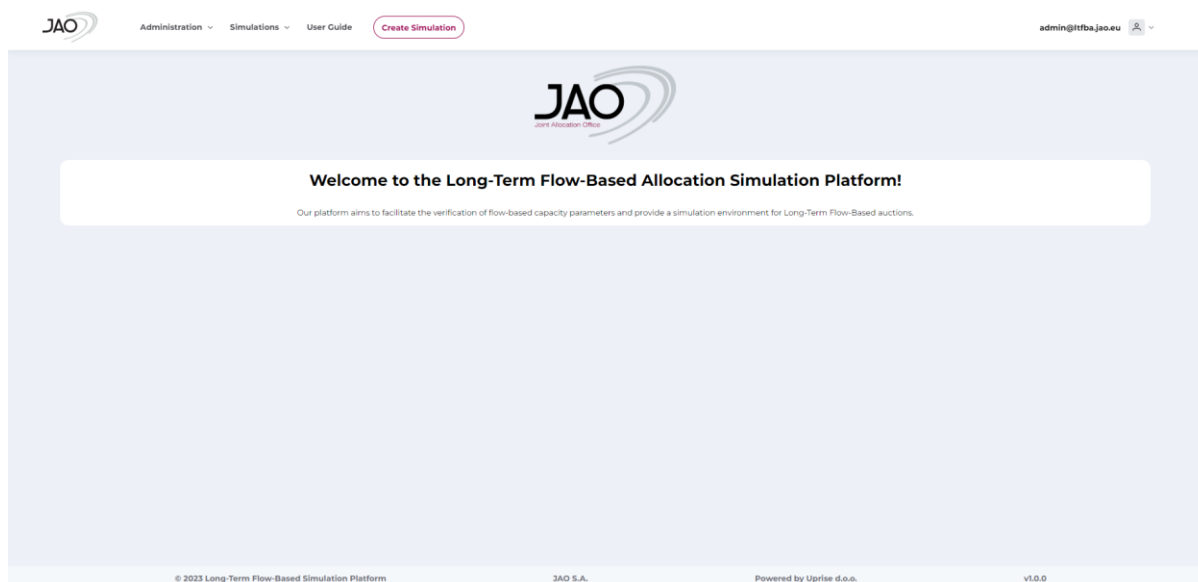


Figure 2 LTFBA Simulation Platform home page

In case Simulation Platform is in maintenance mode, associated warning message will be present on the home page indicating that user are not able to create any new simulations.

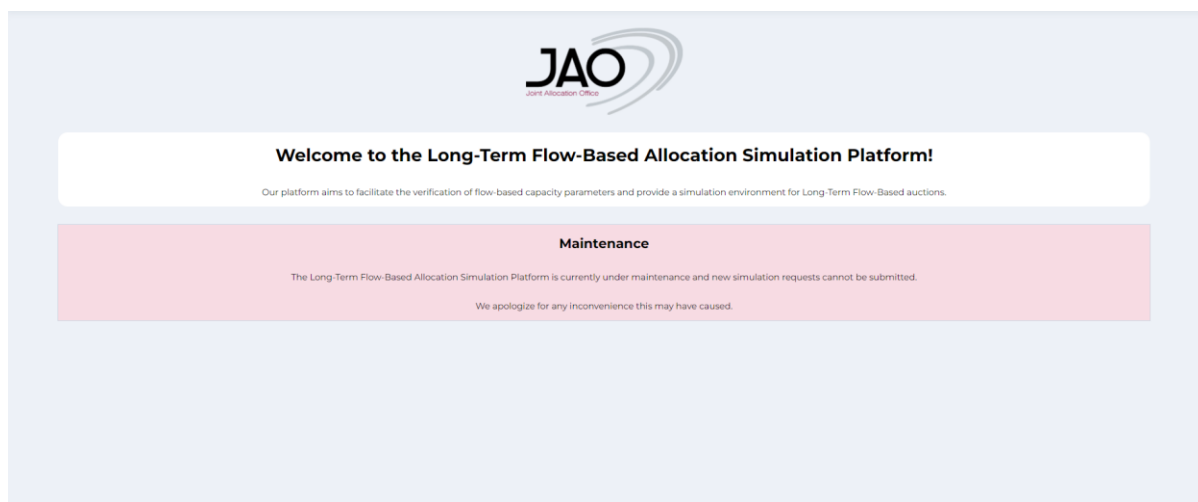
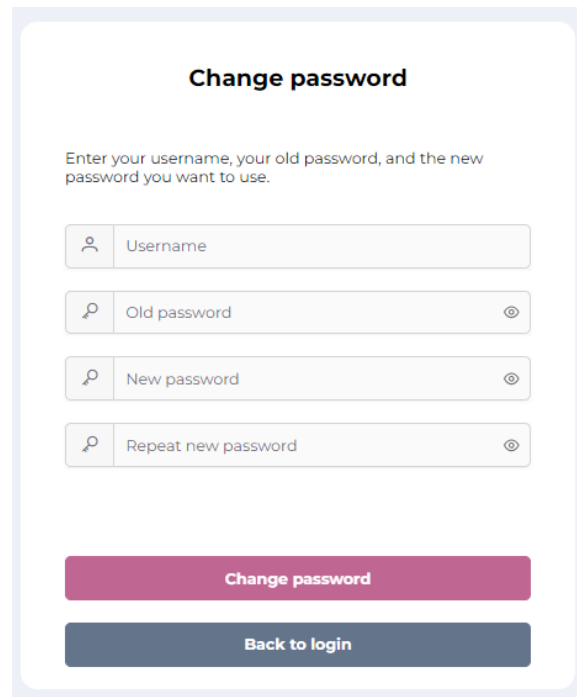


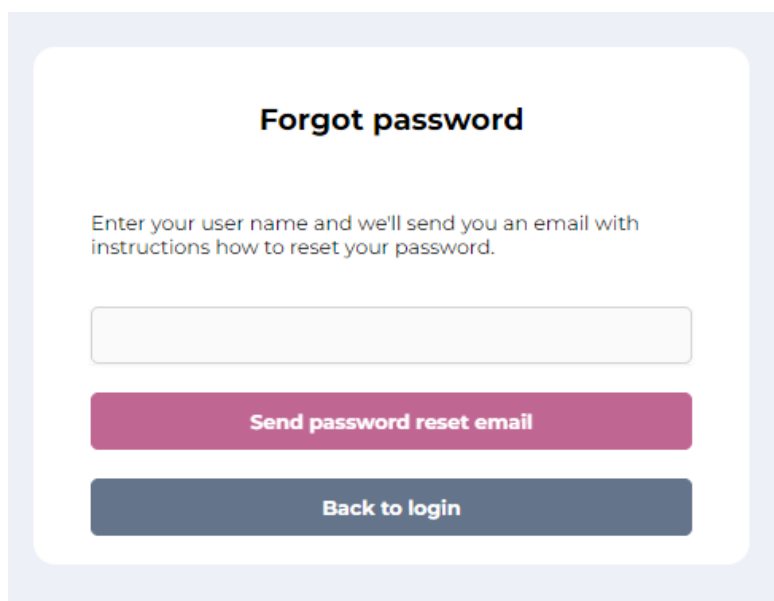
Figure 3 LTFBA Simulation Platform home page while in maintenance mode

On the login page form, user is able to navigate to the password change screen by clicking on the “Change password” button or to request password reset link in case of forgot password by clicking on the “Forgot password” link. In case reset of password is requested, user will receive a dedicated email with further instructions on how to reset it.



The 'Change password' form is a light blue rounded rectangle. At the top, it has the title 'Change password' in bold. Below the title is a subtitle: 'Enter your username, your old password, and the new password you want to use.' There are four input fields, each with a small icon on the left and a toggle icon on the right: 'Username' (person icon), 'Old password' (key icon), 'New password' (key icon), and 'Repeat new password' (key icon). At the bottom, there are two buttons: a pink 'Change password' button and a dark blue 'Back to login' button.

Figure 4 Form for password change



The 'Forgot password' form is a light blue rounded rectangle. At the top, it has the title 'Forgot password' in bold. Below the title is a subtitle: 'Enter your user name and we'll send you an email with instructions how to reset your password.' There is one input field for the username. At the bottom, there are two buttons: a pink 'Send password reset email' button and a dark blue 'Back to login' button.

Figure 5 Form for password reset

2.1 Password rules

When user account is being created in the tool, users are assigned with initial password which is sent in a dedicated email. Prior to the email containing initial password, users receive an email with information that new account is being created for them, together with the username. Initial password created by the tool must be changed on the initial login.

Either password is forced to be changed for the first time or user is setting it manually on its' own, password must conform to the following rules:

- Must have at least 12 characters
- Must contain at least 3 different kinds of characters (uppercase letters, lowercase letters, numeric digits, symbols)
- Must not be similar to last 20 passwords (passwords are considered similar if only one character is changed or if 1 character is added to the beginning or the end)

Every password is going to expire every 90 days.

3 User profiles

The Simulation Platform allows for different user profiles with different levels of access:

- Market participant
- Transmission system Operator (TSO)
- JAO, including Super Admin Role

The access rights are listed in the table:

Table 1 Access rights matrix

Access right	Market Participant	TSO	JAO
Submit a simulation request	Yes	Yes	Yes
Follow-up of simulation requests	Limited to same party (*)	Limited to same party (*)	Yes
Download bid files	Limited to same party (*)	Limited to same party (*)	Yes
Download allocation result files	Limited to same party (*)	Limited to same party (*)	Yes
Download result bid XML files	No	Limited to same party (*)	Yes
Download FB results stream (shadow prices, awarded capacity on CNECs)	No	Limited to same party (*)	Yes
Submit FB domain files through the UI	No	Yes	Yes
Display list of FB domains	Limited (**)	Yes	Yes
Download FBP files	Limited (**)	Yes	Yes
Define available user profiles for FB domains	No	No	Yes
Submit historical order book files through the UI	No	Yes	Yes

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Display list of historical order books	Limited (**)	Yes	Yes
Download historical order book files	Limited (**)	Yes	Yes
Define available user profiles for historical order books	No	No	Yes
Submit CFG files through the UI	No	Yes	Yes
Display list of CFG files	Yes	Yes	Yes
Download CFG files	Yes	Yes	Yes
Download log stream	No	Yes	Yes
Download User Guide	Yes	Yes	Yes
Register a new party	No	No	Yes
Register a new user	No	No	Yes
Display list of registered parties	No	No	Yes
Display list of registered users	No	No	Yes
Manage registered parties	No	No	Yes
Manage registered users	No	No	Yes
Password change through the login page	Limited to same user	Limited to same user	Limited to same user
Display and edit tool configurations page	No	No	Only Super Admin

(*) Limited to same party means that a User is limited to follow the simulation requests and download associated documents related to all Users belonging to the same Party

(**) Limited to the FB domains or historical order books which have been made available by JAO to market participants.

4 Tool Administration

Only JAO users have access to Administration pages of a tool. Within administration part of the tool, it is possible to manage users and parties, as well to configure Simulation Platform properties in case of Super Admin role.

4.1 Parties

Page presents available Parties and a button to add a new one. Besides parties added through the web interface, system presents parties registered and synchronized from the LDAP server. Parties added through web interface are marked as external and can be edited and enabled/disabled by clicking the edit/pencil icon. User can filter the parties by using one of the offered filters on top of the page.

Parties						
Search: <input type="text"/> Roles: <input type="text"/> Type: <input type="text"/> Status: <input type="text"/> <input type="button" value="Apply"/> <input type="button" value="Clear"/>						
+ Add new Party						
id	Name	Identification	Role	External	Full Name	Active
9a6d0d2-64e8-40e1-b4fc-84ca7742a821	JAO	10X000A000A07U	JAO	<input type="checkbox"/>	Joint Allocation Office	<input type="checkbox"/>
081ebc50-cafa-4da8-8ba7-c53656c3623	Test_party	12xabuahd121232	TSO	<input checked="" type="checkbox"/>	test party full name	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
7a367c13-5eda-4da8-8ba7-c53656c3623	TSO_demo_2	12Kasjdsadjaajj	TSO	<input checked="" type="checkbox"/>	TSO demo 2	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
17465095-329f-4c3c-ad33-9f5e79a6023	MP test	121a5c5d5asd	MarketParticipant	<input checked="" type="checkbox"/>	MP test	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
fd7ef753-3aca-43af-bd55-1c23d4acd8d5	TSO_demo_3	12Kasjdsadjaajja	TSO	<input checked="" type="checkbox"/>	TSO Demonstration 3	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
8cbc505a-d21d-434a-af12-55dd4d15e973	TSO_demo_4	12Kasjdsadjaajb	TSO	<input checked="" type="checkbox"/>	TSO Demonstration 4	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
aae445b1-49bd-432b-83b9-e1294e4efdf3	TSO_demo_5	12Kasjdsadjaajc	TSO	<input checked="" type="checkbox"/>	TSO Demonstration 5	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
00758c7a-195a-438e-8eef-e1bca7b69a03	TSO_demo_6	12Kasjdsadjaajd	TSO	<input checked="" type="checkbox"/>	TSO Demonstration 6	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
<input type="button" value="Previous"/> <input type="button" value="1"/> <input type="button" value="Next"/> <input type="button" value="10"/>						

Figure 6 Parties overview page

Search filter simultaneously searches for the typed in term in Name, Identification and Full Name columns. User selects one of the offered items and clicks Apply button to apply filtering. Search filter also allows to create a new search term which will be applied when user clicks apply. It will return all rows which contain searched term in either of before mentioned columns. Filters for Roles, Type and Status offer a classical multiselect filtering. By clicking Clear button, all selected filters are cleared.

Modal for adding a new party requests user to enter Name, Identification (EIC code), Full Name and select a Role (TSO/Market participant).

Add new Party

Role

▼

Figure 7 Modal for new party registration

Following rules apply when new party is created:

- Name is mandatory
- Name shall contain a maximum of 50 alphanumeric characters
- Name shall be unique
- Identification shall be a unique code for all registered parties
- Identification shall contain 16 alphanumeric characters
- Third character in the identification shall be "X"
- Full name is mandatory
- Full name shall contain a maximum of 100 alphanumeric characters

4.2 Users

Page presents available Users and a button to add a new one. Besides users added through the web interface, system presents users registered and synchronized from the LDAP server. Users added through web interface are marked as external and can be edited and enabled/disabled by clicking the edit/pencil icon. User can filter the Users by using one of the offered filters on top of the page.

Username [1]	User profile [1]	Party [1]	External	Full Name [1]	Email [1]	Active
jao.admin	JAO	JAO	<input type="checkbox"/>	Admin JAO	admin@lftba.jao.eu	<input checked="" type="checkbox"/>
Mail_test	TSO	TSO_demo_5	<input checked="" type="checkbox"/>	Mail Test	bartol.unikovic@uprise.hr	<input checked="" type="checkbox"/>
mp_test	MarketParticipant	MP test	<input checked="" type="checkbox"/>	MP Test	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>
test_email	TSO	Test_party	<input checked="" type="checkbox"/>	Test Email	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>
test_user	TSO	Test_party	<input checked="" type="checkbox"/>	Test User	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>
test_user_2	TSO	TSO_demo_2	<input checked="" type="checkbox"/>	Test Two	bartol.unikovic@uprise.hr	<input checked="" type="checkbox"/>
test_user_3	TSO	Test_party	<input checked="" type="checkbox"/>	Test Three	bartol.unikovic@uprise.hr	<input checked="" type="checkbox"/>
tsu_2_user	TSO	TSO_demo_2	<input checked="" type="checkbox"/>	TSO 2 User	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>
tsu_demo_1	TSO	Test_party	<input checked="" type="checkbox"/>	TSO Demo 1	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>
tsu_demo_2	TSO	Test_party	<input checked="" type="checkbox"/>	TSO Demo 2	zlatko.ofak@uprise.hr	<input checked="" type="checkbox"/>

Figure 8 Users overview page

Search filter simultaneously searches for the typed in term in Username, First Name, Last name, Email and Party columns. User selects one of the offered items and clicks Apply button to apply filtering. Search filter also allows to create a new search term which will be applied when user clicks apply. It will return all rows which contain searched term in either of before mentioned columns. Filters for Roles, Type and Status offer a classical multiselect filtering. By clicking Clear button, all selected filters are cleared.

Modal for adding a new User requests user to enter Username, Email, First Name, Last Name and select a Party. By clicking Generate, password is generated by the tool as the initial user password. This password is the one sent to user by email when account is created.

Similarly, when user is synchronized from the LDAP server, Simulation Platform tool generates the initial password which is different from the one in the LDAP server and is sent via email to the user when account is created.

The form is titled "Add new User" and includes a close button (X) in a circle. It contains the following fields and controls:

- Username input field
- Email input field
- First Name input field
- Last Name input field
- Password input field with a "Generate" button
- Party dropdown menu
- "Save" button (with a document icon)
- "Cancel" button (with an X icon)

Figure 9 Form for creation of a new user

Following rules apply when new user is created:

- Username is mandatory
- Username shall contain a maximum of 100 alphanumeric characters
- Username is unique
- Password is mandatory (created by clicking on Generate button)
- Party is mandatory (only TSOs and external parties can be selected)
- Email is mandatory
- Email shall contain a maximum of 80 alphanumeric characters
- Full name is mandatory
- Full name shall contain a maximum of 100 alphanumeric characters.

4.3 Configuration

This page is available only to Super Admin.

Configuration page offers possibility to set Simulation platform configurations.

1. Maximum number of parallel simulation requests per party in the Message queue – defines maximum number of simulation request that one or more users from the same party can add to the queue. When exceeded, warning message will be displayed and user will not be able to add new simulation request. Number is counted as number of simulation requests from the same party with “Waiting” status.
2. Maximum number of parallel simulation requests per user profile in the Message queue – defines maximum number of simulation request that one or more users from the same user profile (i.e., Market participant, TSO or JAO) can add to the queue. When exceeded, warning message will be displayed and user will not be able to add new simulation request. Number is counted as number of simulation requests from the same user profile with “Waiting” status.
3. Maximum number of parallel simulation requests per user in the Message queue – defines maximum number of simulation request that one user can add to the queue. When exceeded, warning message will be displayed and user will not be able to add new simulation request. Number is counted as number of simulation requests from the same user with “Waiting” status.
4. Time for daily eCAT synchronization – Defines time when daily check for synchronization of users and parties from the LDAP server will be performed. When application is started for the first time, all users and parties are synchronized to the Simulation Platform database. All details except the password remain the same, while new password is assigned by the tool and needs to be changed on the first login. Every day the tool checks if there are new users or parties in LDAP that don't exist in the Simulation Platform, and if yes, they are synchronized.
5. Log level – Defined minimum level of log types that will be included in the Simulation Platform log file. Possible options in ascending order: Debug, Information, Error.
6. Inactivity period for web session closing in seconds – Maximum time in seconds after which user is automatically logged out from the tool if no action was performed.
7. Number JAO/TSO LTFBA Algorithm instances – Defines number of LTFBA algorithm instances available for TSOs/JAO queue, i.e., maximum number of simulations that can be executed in parallel for TSO or JAO.
8. Number Market Participants LTFBA Algorithm instances – Defines number of LTFBA algorithm instances available for Market participants queue, i.e., maximum number of simulations that can be executed in parallel for Market participants.
9. Synchronize TSO users from eCAT – Defines if TSO users will be synchronized from the LDAP server each time synchronization is started.
10. Synchronize MP users from eCAT – Defines if Market Participant users will be synchronized from the LDAP server each time synchronization is started.
11. Maintenance mode – Defines if Simulation Platform maintenance mode is active or not. When activated, users will not be able to submit new simulation requests.

12. Maximum number of retries when connecting to SFTP – Defines number of connection retries with sFTP file storage Simulation Platform will perform before throwing an error.
13. Validation values – used as validation rules upon file upload for MP and TSO/JAO user profiles on maximum number of bids in historical order book per bidding party and per bidding zone border, maximum allowed number of bids per bidding party and per oriented allocation border, CNECs in FB document and bids in Bid document. Empty value/cell indicates that no limit is in place.

Simulation Platform Configurations

Maximum number of parallel simulation requests per party in the Message queue

Maximum number of parallel simulation requests per user profile in the Message queue

Maximum number of parallel simulation requests per user in the Message queue

Time for daily eCAI synchronization

Log level

Inactivity period for web session closing in seconds

Number of JAO/TSO LTFBA Algorithm instances

Number of Market Participants LTFBA Algorithm instances

Synchronize TSO users from eCAI

☒

Synchronize MP users from eCAI

☒

Maintenance mode

☐

Maximum number of retries when connecting to SFTP

Save

Validation values

	Maximum number of bids in historical order book per bidding party and per bidding zone border	Maximum number of bids per bidding party and per oriented allocation border	Maximum number of CNECs in FB document	Maximum number of bids in bid document
MP		1000		10,000
TSO/JAO	15		10	20,000

Figure 10 Simulation Platform Configurations page

5 Simulation input files upload

5.1 Flow Based Domains

Page presents available Flow Based (FB) domain documents and a button to add a new one. User can download a document by clicking a download icon next to file name. JAO user can set FB domain document available to market participants. User can filter the files by using one of the offered filters on top of the page.

List of flow-based domains

Parties: Select Parties Users: Select Users Submission date: From To

FB domain name	Submission time	Party	Username	FB domain file	Available to market participants?
good_fb_domain_v1.xml	14. 11. 2023. 17:01	JAO	admin@liffba.jao.eu	good_fb_domain_v1.xml	<input checked="" type="checkbox"/>
20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.v2.xml	27. 10. 2023. 18:56	Test_TSO	test_tso	20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.v2.xml	<input type="checkbox"/>
20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.xml	24. 08. 2023. 12:45	JAO	admin@liffba.jao.eu	20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.xml	<input checked="" type="checkbox"/>
20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.xml	23. 08. 2023. 16:34	JAO	admin@liffba.jao.eu	20270101-FLT-051-FNL-AMRINCL_ZEROBAL_PRES_MERGED_FBPARAMS_CNE-v1-Copy.v1.xml	<input type="checkbox"/>

« < 1 > » 10

Figure 11 Flow based domains overview page

Filters for Parties and Users offer a classical multiselect filtering, while for submission date user can select a time period in which files were submitted. After selecting desired filters, user clicks Apply button to apply the filters. By clicking Clear button, all selected filters are cleared.

To upload a document user clicks on a “Add new FB domain document” button and is redirected to an upload page. After clicking browse, option to select a file is offered. User selects a file, clicks Open and then Upload buttons. If user selects a file to upload which has the same name as an already uploaded file, implemented automatic versioning will save the newly uploaded file with adjusted file name, increasing the file version.

Validation is performed against XSDs and file is validated. User gets a “Upload success” message if validation passed or “Validation fail” message if validation failed.

In case of successful validation, file is transformed into the format needed for LTFBA algorithm. In case transformation was successful, file is uploaded and is presented on the list of available FB domain files.

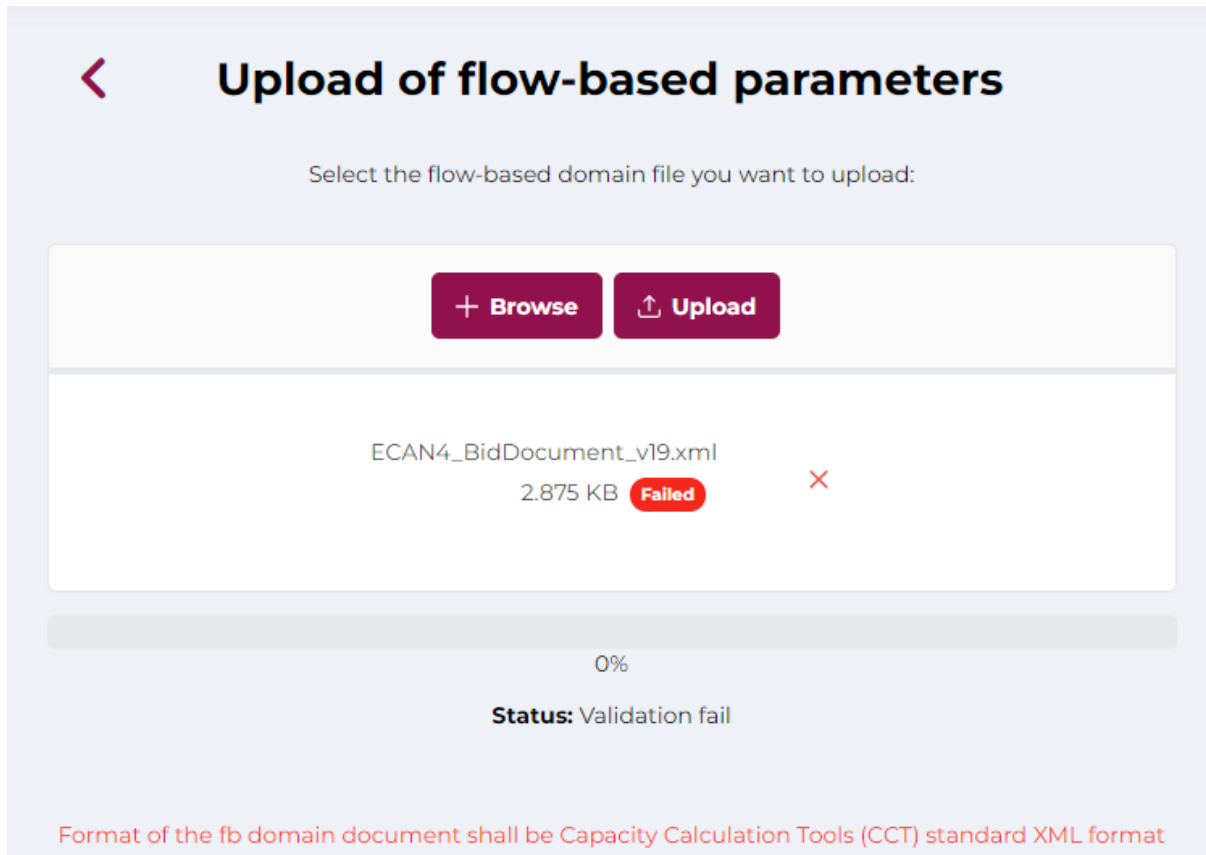


Figure 12 FB domain document upload and failed validation

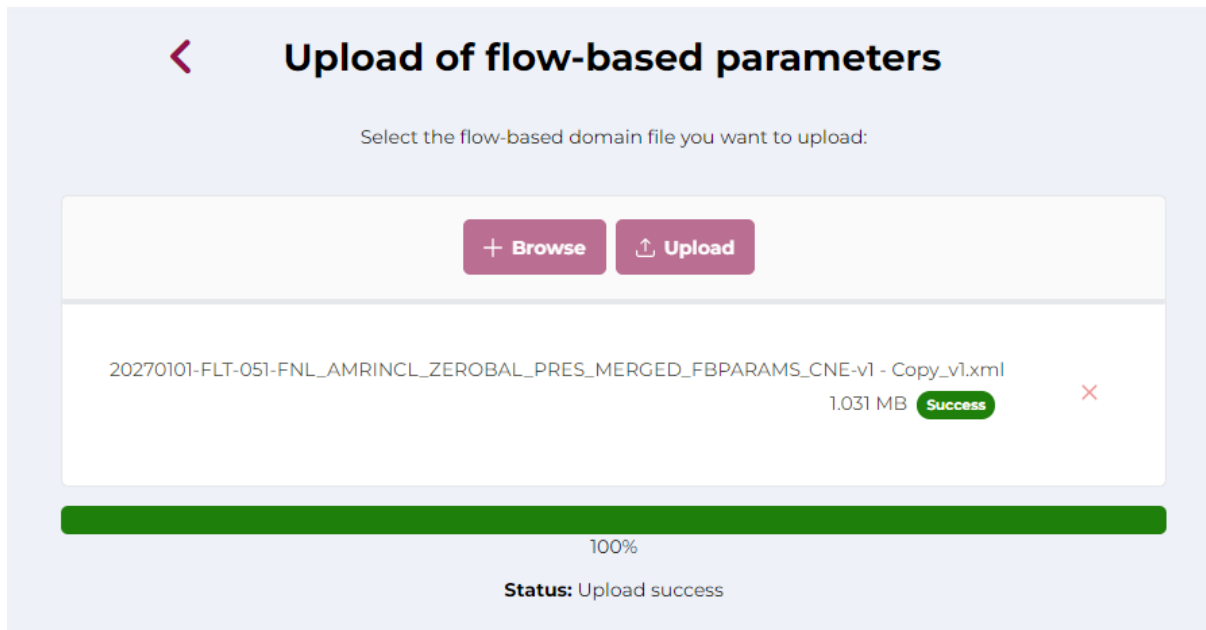


Figure 13 FB domain document upload with successful validation

5.2 Historical Order Books

Page presents available historical order book files in XLSX format and a button to add a new one. User can download a document by clicking a download icon next to file name. JAO user can set historical order book file available to market participants. User can filter the files by using one of the offered filters on top of the page.

List of Historical order books

Parties: Users: Submission date:

Historical order book name	Submission time	Party	Username	Historical order book file	Available to market participants?
Bids_Y_2024_v2.xlsx	11.04.2025. 10:07	TSO_demo_2	tso_2_user	Bids_Y_2024_v2.xlsx	<input type="checkbox"/>
Bids_Y_2024_v1.xlsx	11.04.2025. 09:28	JAO	jao.admin	Bids_Y_2024_v1.xlsx	<input checked="" type="checkbox"/>

1 10

Figure 14 Historical order books overview page

Filters for Parties and Users offer a classical multiselect filtering, while for submission date user can select a time period in which files were submitted. After selecting desired filters, user clicks Apply button to apply the filters. By clicking Clear button, all selected filters are cleared.

To upload a document user clicks on a “Add new Historical order book” button and is redirected to an upload page. After clicking browse, option to select a XLSX file is offered. User selects a file, clicks Open and then Upload buttons. If user selects a file to upload which has the same name as an already uploaded file, implemented automatic versioning will save the newly uploaded file with adjusted file name, increasing the file version.

Validation is performed against XLSX file structure and associated limit of maximum number of bids per bidding party and per bidding zone border. User gets a “Upload success” message if validation passed or “Validation fail” message if validation failed.

In case of successful validation, the XLSX file is uploaded and is presented on the list of available historical order book files.

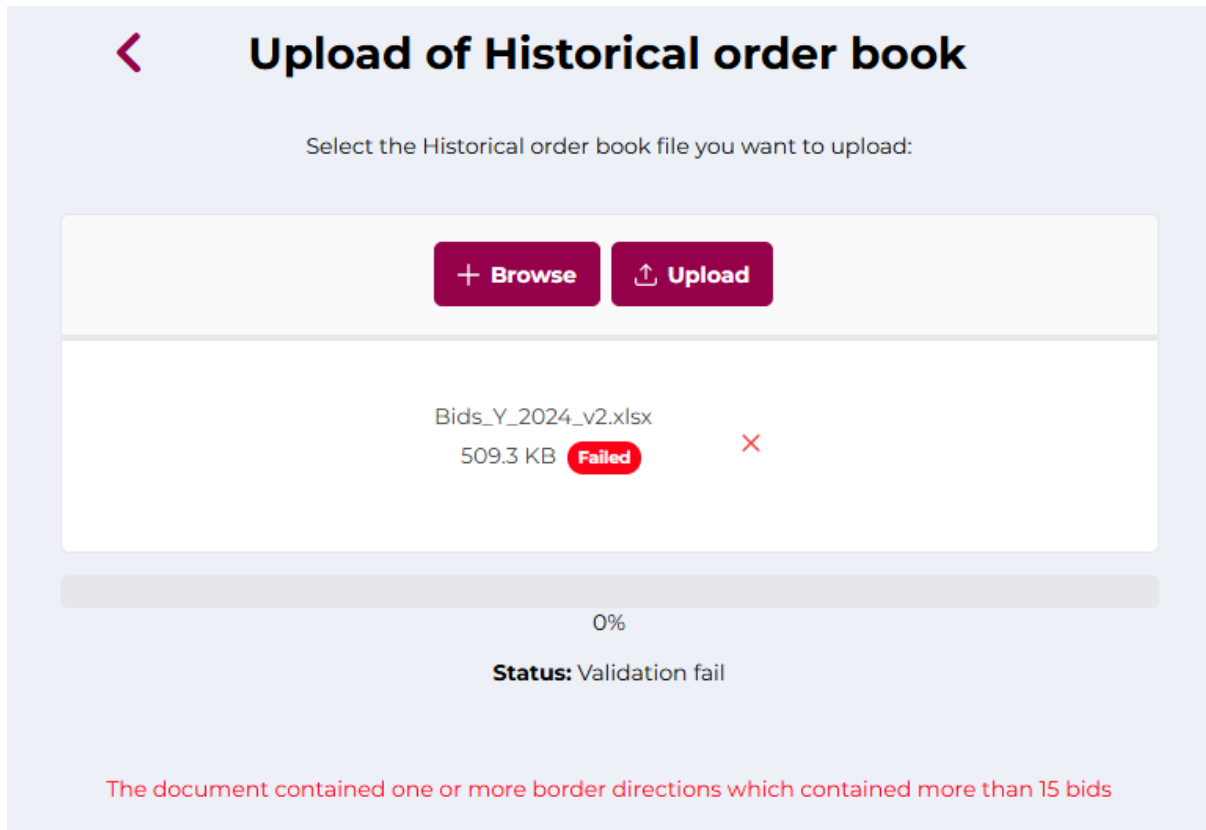


Figure 15 Historical order book upload and failed validation

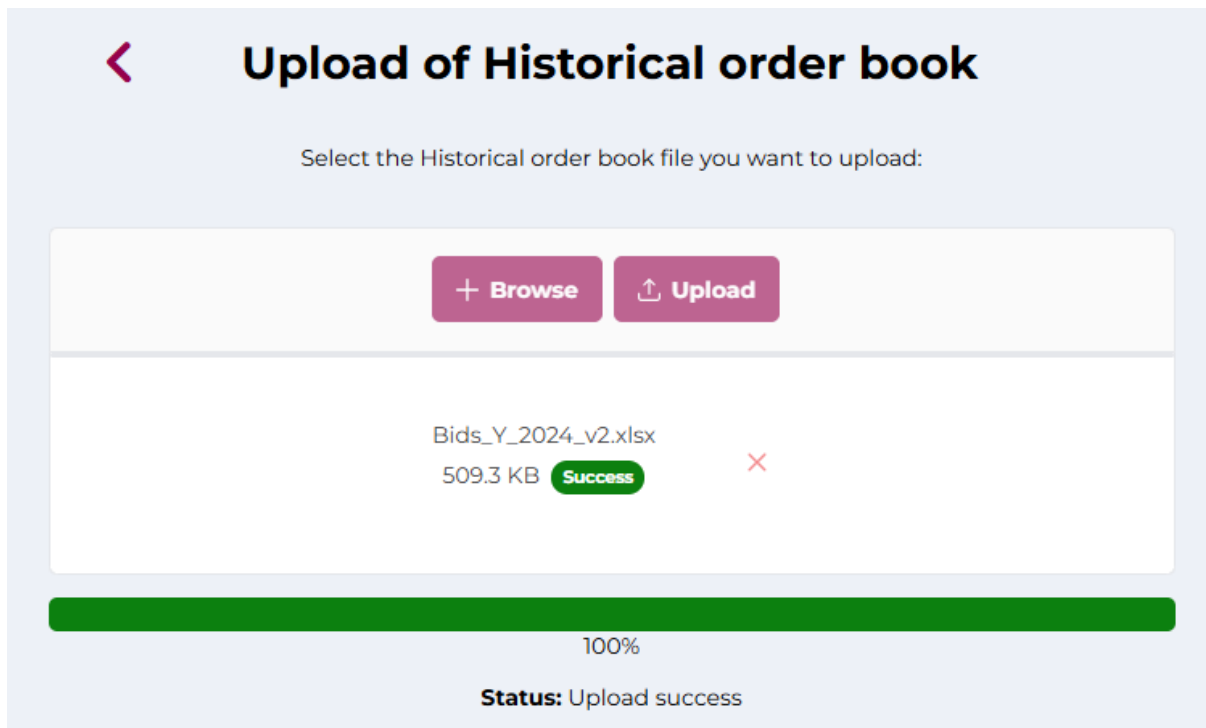


Figure 16 Historical order book upload with successful validation

5.3 Configuration Parameters

Page presents available CFG documents and a button to add a new one. User can download a document by clicking a download icon next to file name. User can filter the files by using one of the offered filters on top of the page.

List of configurations for market areas, borders and virtual hubs

Parties: Users: Submission date:











CFG name [1]	Submission time [1]	Party [1]	Username [1]	CFG parameter file
good_cfg_v1.xml	14. 01. 2023 17:01	3AD	admin@lftba.jac.eu	 good_cfg_v1.xml
20230301-01-CFG_v1a4b.xml	30. 10. 2023 14:24	Test_TSO	test_tso	 20230301-01-CFG_v1a4b.xml
20230301-01-CFG_v1.xml	23. 08. 2023 16:15	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v1.xml
20230301-01-CFG_v0_v2.xml	23. 08. 2023 15:19	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v0_v2.xml
20230301-01-CFG_v0_v1.xml	23. 08. 2023 15:01	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v0_v1.xml
20230301-01-CFG_v1.xml	18. 08. 2023 12:52	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v1.xml
20230301-01-CFG_v1.xml	16. 08. 2023 09:56	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v1.xml
20230301-01-CFG_v1.xml	11. 08. 2023 21:01	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v1.xml
20230301-01-CFG_v0.xml	10. 08. 2023 09:19	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v0.xml
20230301-01-CFG_v1.xml	09. 08. 2023 20:35	3AD	admin@lftba.jac.eu	 20230301-01-CFG_v1.xml

Figure 17 Configuration parameters overview page

Filters for Parties and Users offer a classical multiselect filtering, while for submission date user can select a time period in which files were submitted. After selecting desired filters, user clicks Apply button to apply the filters. By clicking Clear button, all selected filters are cleared.

To upload a document user clicks on a “Add new CFG document” button and is redirected to an upload page. After clicking browse, option to select a file is offered. User selects a file, clicks Open and then Upload buttons. If user selects a file to upload which has the same name as an already uploaded file, implemented automatic versioning will save the newly uploaded file with adjusted file name, increasing the file version.

Validation is run against an XSD and file is validated. User gets a “Upload success” message if validation passed or “Validation fail” message if validation failed.

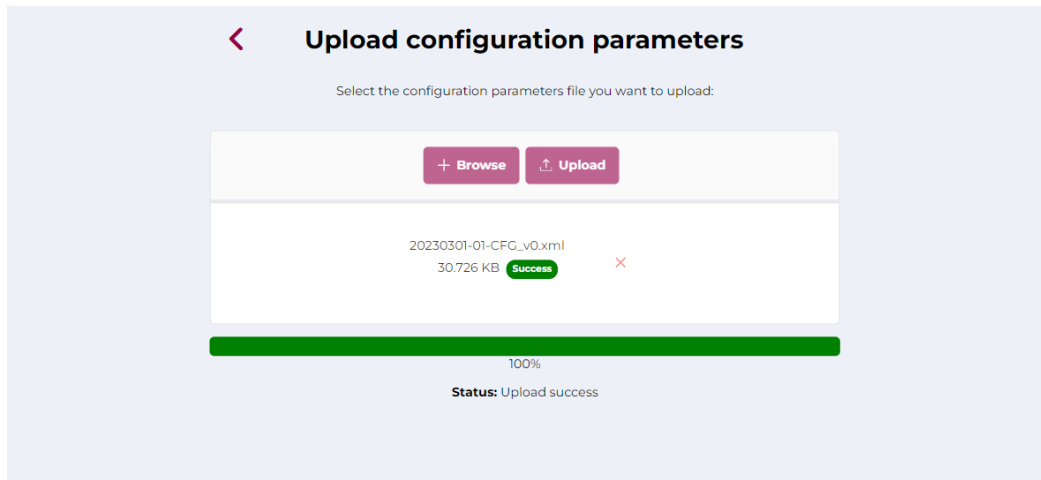


Figure 18 Upload of configuration parameters file with successful validation

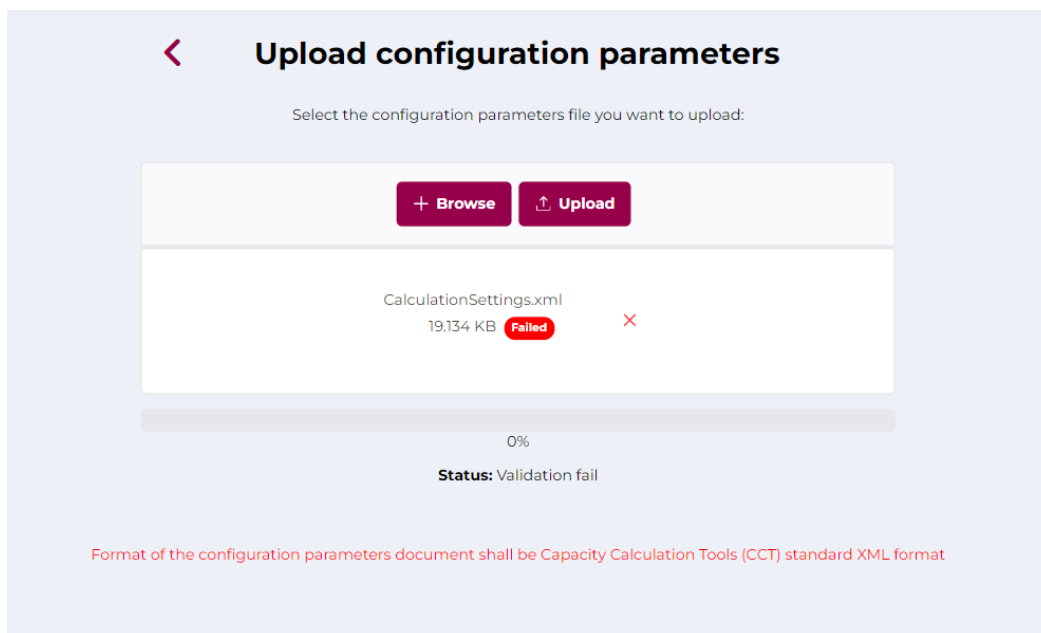


Figure 19 Upload of configuration parameters file with failed validation

6 Simulation creation and overview

6.1 Create Simulations

User needs to click on the “Create Simulation” button on the Simulation Platform menu in order to navigate to the screen dedicated to the simulation requests submission page.

User needs to first select FB domain and CFG files and then upload a bid document.

User has an option to select historical order book as well. Selection is not mandatory and when it comes to the Market participants, only historical order books that were made available are listed in the dropdown list.

To upload a Bid document user clicks Browse button and an option to select a file is offered.

Tool supports upload of two kinds of bid documents:

- ECAN v4 XML bid document
- XLSX bid document

User selects a file, clicks Open and then Upload buttons. If user selects a file to upload which has the same name as an already uploaded file, implemented automatic versioning will save the newly uploaded file with adjusted file name, increasing the file version. Validation is run against XSDs and file is validated.

User gets a “Simulation request processed successfully.” message if validation passed or “Validation fail” message if validation failed.

In case of successful validation, file is transformed into the format needed for LTFBA algorithm. Bids from the file are merged with the historical order book bids if the historical order book file was selected. In case transformation was successful, simulation request is created and added to the queue.

After creating simulation, user can use Overview page to follow progress. Simulation next in line to be run is given a rank 1. Rank is given on first come – first serve basis with two separated queues:

- one queue for requests made by JAO and TSOs;
- second one for Market participants.

Figure 20 Screen for submission of simulation requests with successful validation

6.2 Overview

Overview page allows user to follow-up on simulation requests made. User can filter the files by using one of the offered filters on top of the page.

Follow-up of simulation requests														
Parties:		Flow-based domain:		Submission date:										
Select Parties		All		From										
Users:		Status:		To										
Select Users		All												
Request ID	Submission time	Party	Username	FB domain	CFG Parameters	Bids	Order Book	Allocation results	Bid results	Flow-Based results (D&L)	Flow-Based results (DLX)	Logs	Rank	Status
198802 3-027 4284 0049 72aaac07967	04.08.2025 15:41	JAO	jao.admin	outdomain_v 9.xml	CFG_L1.xml	ECANA_BiDo current_v89_v 28_v1.xml								Incorrect Request
123988 675-400-9 088 80f9f0302ab6	14.04.2025 13:49	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	ECANA_BiDo current_v89_v 28_v1.xml	Bids_V_202 4_v1.xml	bids_flo_v2 87.csv	bids_flo_v2 47.xml	fpo_flo_v24 6.xml	fpo_flo_v24 6.xml	log_flo_v2 48.txt		Completed
a5c59fe adfa-420 d76aa f99f0302aa4	14.04.2025 13:49	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	ECANA_BiDo current_v89_v 28_v1.xml	Bids_V_202 4_v1.xml	bids_flo_v2 86.csv	bids_flo_v2 46.xml	fpo_flo_v24 5.xml	fpo_flo_v24 5.xml	log_flo_v2 47.txt		Completed
5c7348e 0739-424 e 8420 f99f0302a3e	14.04.2025 09:55	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	EXCEL_BiDS_2 023_CORE_v3 V_024_V0_V1_0 2_v1.xml	Bids_V_202 4_v1.xml	bids_flo_v2 85.csv	bids_flo_v2 45.xml	fpo_flo_v24 4.xml	fpo_flo_v24 4.xml	log_flo_v2 46.txt		Completed
7103ad89 7905-444 bd5f f99f0302a57b	11.04.2025 10:10	MIP test	mip_test	20240103-BLT 060_FNB_AH9 INCL_ZDR06.	20230101-01-CF G_ajss_BE DE .v3.xml	ECANA_BiDo current_v89_v 28_v3.xml	Bids_V_202 4_v1.xml	bids_flo_v2 84.csv	bids_flo_v2 44.xml	fpo_flo_v24 3.xml	fpo_flo_v24 3.xml	log_flo_v2 45.txt		Completed
1295dc5 2669-40f-9 007 994309f5ea7	11.04.2025 09:32	TSD_sismo.2	tso_2_user	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	EXCEL_BIDS_2 023_CORE_v1 V_024_V0_V1_0 2_v1.xml	Bids_V_202 4_v1.xml					log_flo_v2 44.txt		Failed
2c038e56 3eae-449 db5c 45a846230	11.04.2025 09:29	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	ECANA_BiDo current_v89_v 28_v2.xml	Bids_V_202 4_v1.xml	bids_flo_v2 82.csv	bids_flo_v2 42.xml	fpo_flo_v24 1.xml	fpo_flo_v24 1.xml	log_flo_v2 43.txt		Completed
8cd1ff9a 4a3a-463 96d7 f99f0302a328	11.04.2025 09:29	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	ECANA_BiDo current_v89_v 28_v1.xml	Bids_V_202 4_v1.xml	bids_flo_v2 81.csv	bids_flo_v2 41.xml	fpo_flo_v24 0.xml	fpo_flo_v24 0.xml	log_flo_v2 42.txt		Completed
154ca26f 39fa-4d8 af50 f99f0302a62b	12.06.2024 20:30	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	Bid_templates_v10_v9B.xml		bids_flo_v2 80.csv	bids_flo_v2 40.xml	fpo_flo_v23 9.xml	fpo_flo_v23 9.xml	log_flo_v2 41.txt		Completed
9fb0cf2 0ba3-4999 9796 af9f0302a660	12.06.2024 10:29	JAO	jao.admin	outdomain_v 9.xml	20230101-01-CF G_ajss_BE DE .v3.xml	Bid_templates_v10_v9C_v1.xml		bids_flo_v2 79.csv	bids_flo_v2 39.xml	fpo_flo_v23 8.xml	fpo_flo_v23 8.xml	log_flo_v2 34.txt		Completed

Figure 21 Screen for the follow up of simulation requests

*Bid results column if visible only to JAO and TSO users

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Filters for Parties, Users, Flow-based domain and Status offer a classical multiselect filtering, while for submission date user can select a time period in which files were submitted. After selecting desired filters, user clicks Apply button to apply the filters. By clicking Clear button, all selected filters are cleared.

For each simulation following data is presented:

Table 2 Simulation requests follow up page parameters

Column name	
Request ID	Unique simulation request ID
Submission time	Time at which simulation was submitted in CET time zone
Party	Party that submitted simulation
Username	Username of a user who submitted simulation
FB domain	Input FB domain file used in a simulation
CFG parameters	Input CFG parameters file used in a simulation (parameters for market areas, borders and virtual hubs)
Bids	Input Bids file used in a simulation
Order Book	Input Historical order book file used in a simulation (in case selected)
Allocation results	Output Allocation results CSV file transformed by Simulation Platform from Bid results XML generated by the LTFBA algorithm
Bid results	Output Bid results XML file generated by the LTFBA algorithm
Flow-Based results	Output Flow-Based results file generated by LTFBA algorithm (shadow prices and awarded capacity on the CNECs)
Flow-Based Results XLSX	Output Flow-Based results file in XLSX format
Logs	Output Logs file generated by simulation by LTFBA algorithm
Rank	Current place of given request in the message queue (JAO/TSO or Market Participant queue)
Status	Status of a simulation. Can be: <ul style="list-style-type: none"> • Waiting • Incorrect Request • Failed To Start • In Progress • Completed • Failed