

MATS - FAQ

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1. Introduction

1.1 Audience

This document is intended for all customers (client members, API members and Market Data Customers) who will use MATS Trading system.

1.2 Purpose

The purpose of this document is to answer Frequently Asked Questions concerning MATS trading system.

This document can be used by users in order to resolve potential problems when using MATS trading system.

1.3 Document revision history

Evolution	Date	Version	Author	Comments
Creation	18/10/2024	1.0	EPEX SPOT	

1.4 Reference documents

- MATS Fundamentals
- MATS & ETS – Changes overview

2. Questions/Answers

2.1 Functional and overall system questions

2.1.1 Connection and user accounts

Q: Will all existing ETS accounts (client and API users) be migrated to MATS? No additional registrations are required?

A: All ETS existing accounts will be migrated to MATS automatically. Note that if you have an active user account in ETS that does not have an email address associated with it you will have to provide one. Please contact Market Operations team to update your accounts. Please note that we will not migrate inactive user accounts or portfolios.

Q: Will the user setup / accounts work the same as in ETS?

A: Yes.

Q: How does the system enforce that only single sign-in is allowed at a time?

A: The design principle in MATS is that no more than one user session is allowed at a time (put differently, only one sign in is allowed per user at a time). This is applicable for both client and API users.

Trading system checks if there is already an active user session existing in the system with the same login and token. Based on this, system ensures that two user sessions cannot be allowed at the same time for the same credentials.

Q: How long does it take for token to auto-expire?

A: With regard to the duration of token auto-expiration, we will provide further details when we publish the API documentation. For API users, auto-expiration date and time can be deduced based on the information "tokenDuration" which will be available as part of the API response.

Q: Will login to MATS be done via token or 2-factor authentication?

A: MATS will offer 2-factor authentication, and this will be introduced during simulation phase, well ahead of the Go-live. At the start of simulation, login will be done via user name **login** and password. For API users, bearer token which will be returned by the system upon successful login can be reused to continue with other possible API requests.

Q: Will API clients need to be certified for MATS and do we need to schedule this?

A: Details about 2 factor authentication (ex: certificate) will be shared in the upcoming months. At the start of simulation, there is no need of any Certificate generation process that must be addressed. Users can login via login and password.

For the conformance tests, exact timeline to be shared in upcoming FAQ updates.

Q: Concerning API Login, you state single sign in. In case order creation tool is used by multiple people, does each user have to sign in through it or will the API token cover all users of the tool?

A: The answer depends on how the order creation tool is set up and connected to MATS. If there is only one connection from the tool, MATS recognizes one user and keeps this session active. In case each person requires a separate connection, then you would need dedicated API users.

Q: Can multiple users use the MATS front end at the same time?

A: Assuming that you have multiple trading accounts(i.e. multiple accounts) with the necessary rights configured, the users associated to these accounts could use the MATS front end at the same time. In case the questions refers to multiple people using the same account, this will not be possible.

2.1.2 Passwords

Q: What is password policy for MATS user accounts?

A: Please consult the MATS Fundamentals document.

2.1.3 Market Results / Trade Report

Q: Will the current Market results csv file undergo any (major) changes and when will we be informed about these?

A: The file will not undergo any major changes. There will be limited changes related to naming convention, slight restructuring and addition of new information. More details will follow in upcoming versions of MATS Fundamentals and 'MATS & ETS - Changes overview' documents.

15MTU SDAC: Changes to the Market results csv file are expected as the time units will be shifted to 15-minute delivery periods. More details will follow in upcoming versions of MATS Fundamentals and 'MATS & ETS - Changes overview' documents.

Q: Did I understand correctly that current MarketResult files can also be downloaded from the MATS client?

A: That is correct. The functionality will not be available on the first day of simulation, but it will be delivered as part of the first releases during simulation phase.

Q: Will Market Results still be available as well on SFTP?

A: This option will still be available via SFTP as of the Go-live of MATS. During the simulation phase of MATS the functionality will not be available at first; we will communicate once we will enable this synchronization.

Q: Will the Trader ID be captured following submission of orders via UI and API in the Trader Report file? Will this Trader ID be included in the Trade Results API?

A: Yes, the Trader ID will be included in Trade Report file, and this information can also be retrieved via a dedicated API call.

Q: Will the market results content move to JSON (currently CSV inside SOAP)?

We will offer 2 options:

- 1) CSV (for Market results file) and XML (for Trade Report file) formats to allow the continuity
- 2) JSON format for API customers

Q: For how long will the results be available in MATS?

A: Current working assumption is seven days, but we are still assessing this configuration. Further updates will be provided in upcoming FAQs.

2.1.4 System configuration / parameters

Q: Will all ETS Area name, Area set and Auction name be used in MATS directly? Will there be additional new auction related reference data?

A: All ETS Area name, Area set and Auction name be used in MATS directly with some minor naming convention change between ETS and MATS. Please check 'MATS vs ETS – Changes overview' document for more details. There will be no new reference data in MATS.

2.1.5 Technical questions

Q: Is the client going to be a web client, or is it still a standalone client?

A: MATS client is a web-based client.

2.1.6 Order Management

Q: For how long will you be able to see historical orders in MATS?

A: Current working assumption is seven days, but we are still assessing this configuration. Further updates will be provided in upcoming FAQs.

2.1.7 Product offering

2.1.7.1 Hybrid curves

Q: Can you give some more details on the concept of "hybrid curves"?

A: **Hybrid curve type** allows the user to submit a linear order with stepwise curves or piecewise curves or a mix of both curves. It will be the user sole choice and preference which curve to use during the linear order submission. Please consult MATS Fundamentals document for further details.

2.1.7.2 Block orders

Q: How many Block offers can MATS process? Is there a contractual limit?

A: Block offering and parameters are not expected to change with the switch to MATS. HUPX Members can find block parameters in Products List and Specifications: [LINK](#)

2.2 API-specific questions

2.2.1 Documentation

Q: When and where can we access API / developer documentation?

A: We will publish the API documentation by end of October.

Q: Will the API-documentation include the documentation for the switch to 15-minute time unit in SDAC?

15MTU SDAC: Yes, we will highlight the specific functionalities and / or fields that would be impacted by this switch to 15-minute time unit in SDAC.

Q: Will the API-documentation released in October already include the documentation for the MTU 15 min products?

A: Not as of October, but the principle is simple:

In 15MTU SDAC with the CPM (Cross Product Matching) possibility, orders can be submitted in different durations (15, 30, 60 minutes). But results (MCP & MCV) are always published with a 15 minute granularity. Please refer MATS Fundamentals.pdf for more details.

We will provide examples in the upcoming weeks.

2.2.2 Market results

Q: Market results and individual results are available in the UI, will this also be the case for the API? I.e. can you fetch your own results?

A: Correct. In addition to reports being available, you will have a set of resources you can use to compile your own results.

2.2.3 Order management

Q: If we have the option to submit either a piecewise or stepwise curve or mixed curve for each auction, then do we need to specify the curve type in the bid submission via API to MATS?

A: No, the system 'recognizes' linear order, you do not need to specify which type you are using.

2.2.4 PUSH mechanism

Q: Is it expected that we implement the logic / functionalities to react to notifications instead of requesting in loops as we do today?

A: Push will allow the customers to reduce the number of loops. Push is not mandatory to be implemented though we strongly recommend to utilize this feature to avoid the looping mechanism as much as possible.

Q: Will we be forced to use the Push Notifications in the API or will we still be able to use loops to check if the auction results are available for example?

A: You remain free to use or not the Push Notification. Push is not mandatory to be implemented though we strongly recommend [to utilize this feature to avoid the looping mechanism as much as possible, and get data in real time, especially for market results, instead of waiting for the next loop iteration.](#)

For the looping mechanism, there will be Terms of Reference defined about the limits that must be respected by the API applications.

[Q: Is there a request restriction in the web socket section?](#)

[A: Your app will just have to listen to push/socket.io notifications and react to these 'signals' by sending the relevant REST API requests, respecting Terms of Reference, and processing responses \(same cancel/replace logic as today with loops, but based on the notification scope\). It will not be possible to send requests via socket.io.](#)

Q: Will the data push service have a cache feature if we disconnect to catch up on the backlog of messages during that period or would we need to then get the data via the rest API?

A: Data must be retrieved via [the Rest API when re-starting your app](#). There is no cache feature at this moment.

Q: Will this API change require a refactor of our current software for the ETS API, or will it remain compatible with the existing implementation?

A: As technology will change and also the API request/response differs (JSON format, different fields etc), we expect you will need to refactor your current software. Beyond the technology change you will need to implement the push part if you wish to take advantage of this new feature. In addition, there is a slight naming convention change (see response in

Section 2.1.4). However, the global logic remains very similar and everything should look very familiar to you.

2.3 Trading Client-specific questions

2.3.1 Order management

2.3.1.1 Bulk import

Q: Is it correct, that we can import hourly orders, quarter hourly orders and block orders in one file to the MATS web client?

A: Main rule for the bulk import functionality is that it works per auction session¹ and per order type, meaning that you cannot combine e.g. linear and block orders, you would need separate bulk files.

15MTU SDAC: Concerning different durations, once multiple time units will be available for the same auction, bulk import will allow combining hourly, half-hourly and quarterly orders in the same file.

Q: Will MATS support Excel file upload? Is there other file formats which will be supported (json or xml)?

A: MATS bulk import via the web client will only support Excel file upload. JSON format is used for order submission via API.

Q: Does the bulk import of linear orders also aggregates the bids in relevant clusters?

A: No, this functionality strictly imports order(s) submitted with the correct (bidding level, portfolio, duration) combination(s).

Q: Is the Excel upload/copy and paste order layout the same format as it was in ETS? If not, are the changes significant or minor? Will we still be able to paste in stepwise linear orders from Excel?

A: Changes to the Excel copy/paste between MATS and ETS are minor. Please consult the 'MATS & ETS – Changes overview' document for more details.

2.3.2 Market results

Q: How is the difference shown in MATS between the preliminary market results (current: orange color) and the final market results (current: green color) ?

A: It will follow similar design and colors, we will have a tag that will appear on the lefthand side (dark banner) of the results screen.

¹ Auction session refers to the auction being run on a given auction date (e.g. 2 auction sessions: SDAC CORE auction for delivery date 26/09/2024 and GB DA1 auction for delivery date 26/09/2024).

2.4 Project-specific questions

2.4.1 MATS Simulation

Q: During the members testing, will we get clearing results? Will we be able to get the clearing results on a daily basis?

Yes, you will get clearing results. As explained during the webinar, we will announce the schedule with dates on which we will be running auctions to allow you to better plan and anticipate the reception of these clearing results during the simulation phase.

Q: Will simulations continue after MATS release? So that we can test further development in the future? Will there be a parallel test environment available after go live?

A: Yes, simulation environment will continue after MATS go-live.

Q: Will the testing phase allow testing for both DA and IDAs auctions?

A: That is correct, you will be able to test both DA and IDA auctions before Go-live.

2.4.2 Migration ETS to MATS

Q: Will MATS production run in parallel to ETS or will there be a hard cutover from ETS to MATS?

A: Switch from ETS to MATS will be a clean cutover, meaning that on Go-live day of the Exchange (EPEX SPOT and serviced Exchanges), we will switch all customers of the respective Exchange*.

We will open the MATS production orderbook sufficiently in advance to the Go-live to allow customers to securely place their first production orders. Throughout simulation phase, we want to give our customers sufficient time and opportunity to perform all necessary testing to ensure go-live readiness.

ETS will remain open for several days following the Go-live to allow trading participants to retrieve any historical information they may seek.

*As addressed during the webinar, we intend to do a sequential Go-live of different Exchanges migrating from ETS to MATS.

Q: When will ETS be effectively decommissioned?

A: As announced, ETS will be decommissioned after MATS goes live. This will not occur on the same day, as we will leave some contingency to secure the Go-live. During this period, we will monitor how MATS is operating to ensure successful migration of all customers and system stability. The exact dates and timeframes are subject to confirmation of Go-live date, however, ETS will be decommissioned no later than at the end of our Go-live window, i.e. 30 June 2025.

Q: How will availability of market results be handled on the switchover date?

A: You will still be able to log into ETS on the switchover date to access your results, but we do not intend to open any orderbooks on that day to avoid that someone mistakenly submits orders in ETS. For the sake of clarity, switchover will be based on trading date.

Q: Am I right to assume that ETS Test Env will remain available between now and MATS Go-Live, so that we can keep testing ETS and MATS at the same time?

A: Yes, ETS test environment will remain accessible until MATS Go-live.

2.4.3 15/30MTU in SDAC project

Q: When will MATS go live in relation with the 15MTU in SDAC project? Will it be implemented on the same day?

15MTU SDAC: 15MTU will go live in MATS, meaning that we expect MATS Go-live to happen before 15MTU Go-live. We are carefully monitoring the timeline of 15MTU project and will make sure to communicate in advance the targeted sequence.

Q: How will the move to 15-minute time unit impact block orders minimum granularity?

15MTU SDAC: No changes are expected in block configuration. Please consult '15MTU in SDAC Q&A' document for more details (available [here](#)).

Q: Please can you explain cross product matching?

15MTU SDAC: In essence, Cross Product Matching (CPM) consists in the ability of the EUPHEMIA algorithm to match orders submitted with different time resolutions. From MATS perspective, trading system will allow submission of orders of multiple durations in the same bidding level / market segment. Market Results will be computed and published at the Market Time Unit: 15-minute.

Please consult '15MTU in SDAC Q&A' document for more details.

Q: Will we be able to test different MTUs to begin with and how do we choose the MTU?

15MTU SDAC: From the opening of MATS SIMU, only one time unit will be offered for a given market segment. Ability to submit multiple time units in the same bidding level / market segment will be enabled at a later stage of the MATS simulation phase. The intention is to onboard customers to the new trading system, then follow by introducing multiple time units in the same bidding level during simulation. We will inform our members in due course of the tests' detailed planning.

2.4.4 Miscellaneous

Q: Will Comtrader be impacted too?

A: MATS will replace ETS and will be dedicated to day-ahead and intraday auctions. Comtrader/M7 will not be impacted.

3. Serviced Exchanges

3.1 Common questions

Q: Will all ETS serviced exchanges migrate to MATS alongside EPEX? Or do they have their own timeline? Is a big bang release planned?

A: Yes, all ETS member exchanges will migrate to MATS alongside EPEX. The timelines are generally the same and further details will be provided on how we intend to organize the dedicated go-lives in a relatively short window. However, as much as possible, we will avoid migrating too many exchanges on the same day.

3.2 ADEX

Q: Some exchanges like BSP and SEEPEX do not have API for ETS. Will it change for MATS?

A: Yes, BSP and SEEPEX will start offering API access with MATS. More details will follow.