

MATS & ETS – Changes overview

18.10.2024
Paris

Content

1.	Introduction	3
1.1	Audience	3
1.2	Purpose	3
1.3	Document revision history	3
1.4	Reference documents	3
2.	System changes	4
2.1	Naming convention and data hierarchy	4
2.2	Delivery periods – DST23	5
3.	Order management changes	6
3.1	Beneficiary field	6
3.2	[New Feature] Bulk import	6
3.3	Excel Paste	7
3.4	Linear orders – new business rules	8
3.5	Linear order versioning	11
4.	Market results' changes	12
4.1	User permissions when viewing results	12
5.	Reports' changes	13

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 list and explain the key differences between ETS and MATS trading system. Where applicable, the document will highlight the specific changes related to the introduction of 15-minute Market Time Unit in SDAC¹, day-ahead coupling (please refer to the label **15MTU SDAC**). This document can be used by users in order to understand the relevant changes and impacts on their processes and tools.

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 FAQ

¹ Please note that, while the document refers to 15MTU in SDAC, this also addresses the changes of moving to 30MTU for customers in ROI and NI markets.

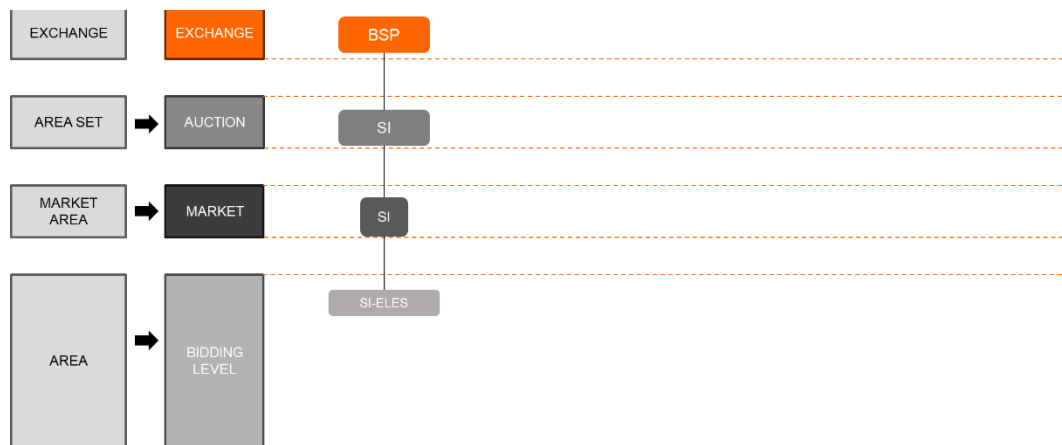
2. System changes

2.1 Naming convention and data hierarchy

Majority of the concepts between ETS and MATS will remain the same. However, there is a minor naming convention change between ETS and MATS, impacting three fields (which still represent the same elements as in ETS):

- Area Set -> Auction
- Market Area -> Market
- Area -> Bidding Level

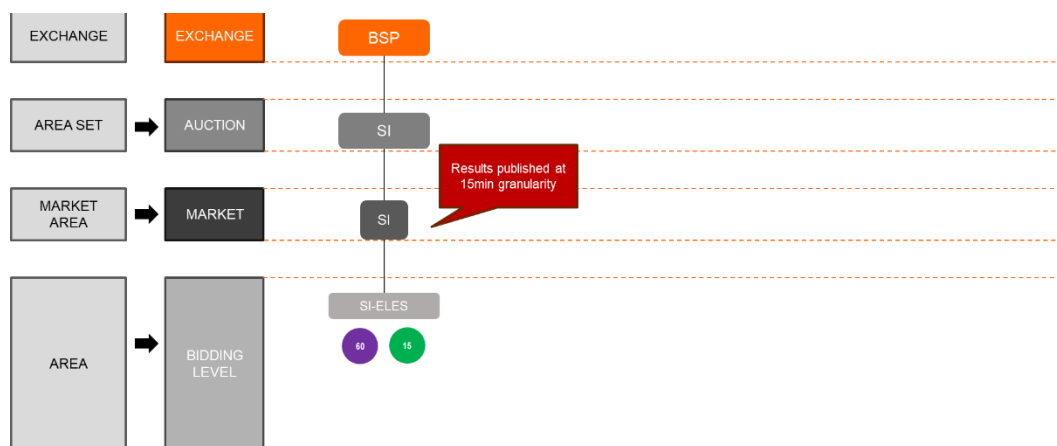
See illustrative example below.



2.1.1 Impact of 15MTU in SDAC

15MTU SDAC: The introduction of 15MTU in SDAC will also introduce the so-called Full Cross-Product Matching functionality in MATS. This functionality does not impact the overall hierarchy, but it emphasizes the concept of multiple durations being available for order submission for each bidding level. Concretely, all bidding levels under SDAC will allow order submission in 15-, 30-, and 60-min granularity, whereas the results will always be published at 15min granularity. Users can indicate this granularity during order submission by specifying it in the field 'Duration'.

See illustrative example below.



2.2 Delivery periods – DST23

When submitting orders or retrieving results, users may refer to delivery periods by:

- Period sequence numbers (1,2,3,...), **mainly valid for the client users**
- Delivery periods in UTC format, **mainly valid for API users**

There is a minor difference in how ETS and MATS deal with the DST23 scenario.

ETS	MATS
User can paste a grid with 24 periods (1-24), and the system will 'skip' the third hour.	Period numbers (and the order template) will follow this sequence: 1, 2, 3 , 5 , 6, 7, ...

3. Order management changes

3.1 Beneficiary field

For the time being, we will not be implementing the Beneficiary field, hence the changes introduced in ETS as part of this update, will not be reflect in MATS. More details will follow.

3.2 [New Feature] Bulk import

This is a new feature offered by MATS system allows submitting one or multiple orders by importing² an Excel file. This feature is available for both Client and API users, but this document will explain the specifics for the Client user / Excel template that will be used. Main rule for the bulk import functionality is that it works per auction session³ and per order type, meaning that you cannot combine e.g. linear and block orders, you would need separate bulk files.

Import files must respect the following structure:

- Auction name (e.g. CORE, SEM-DA, GB, HU, RS, SI, ME, MK, etc.) – referenced only once in the document
- For every order that will be included in the import:
 - o Portfolio
 - o Bidding level
 - o Duration
 - o Order ID (only if overwriting existing)
 - o Currency (settlement currency in which the order is submitted)
 - o Order with its relevant information (subject to the order type)

3.2.1 Impact / link with 15MTU in SDAC

15MTU SDAC: Users will be able to submit multiple durations (e.g. 15min and 60min) in the same file. Please see below an illustrative example for linear orders.

² While ETS has an 'Import' button, this button is only used for pasting orders.

³ 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).

Auction name	Auction1		
Portfolio	P1		
Bidding level	BL1		
Duration	60		
Order ID			
Currency	EUR		
Comment	Period	-500	4000
	1	10	10
	2	10	10
	3	10	10
	4	10	10
	5	10	10
	6	10	10
	7	10	10
	8	10	10
	9	10	10
	10	10	10
	11	10	10
	12	10	10
	13	-5	-5
	14	-5	-5
	15	-5	-5
	16	-5	-5
	17	-5	-5
	18	-5	-5
	19	-5	-5
	20	-5	-5
	21	-5	-5
	22	-5	-5
	23	-5	-5
	24	-5	-5
Portfolio	P2		
Bidding level	BL1		
Duration	15		
Order ID			
Currency	EUR		
Comment	Period	-500	4000
	1	5	5
	2	5	5
	3	5	5
	4	5	5
	5	5	5
	6	5	5
	7	5	5
	8	5	5
	9	5	5

3.3 Excel Paste

MATS system also supports pasting orders from Excel. Users no longer need to click 'Import bid' button to perform this action, but rather paste directly into the grid.

3.3.1 Linear orders

Users will need to select both 'Comment' and 'Period' columns in addition to the order grid to facilitate pasting⁴. System will automatically show 'Comment' column while pasting, and hide it after submission in case there are no comments.

Please see below an illustrative example of a linear order to be pasted into MATS.

⁴ For reference, if reader is familiar with Appendix F of ETS Trader Manual, MATS accommodates so-called Configuration 2.

Comment	Period	-500	4000
	1	10	10
	2	10	10
	3	10	10
	4	10	10
	5	10	10
	6	10	10
	7	10	10
	8	10	10
	9	10	10
	10	10	10
	11	10	10
	12	10	10
	13	-5	-5
	14	-5	-5
	15	-5	-5
	16	-5	-5
	17	-5	-5
	18	-5	-5
	19	-5	-5
	20	-5	-5
	21	-5	-5
	22	-5	-5
	23	-5	-5
	24	-5	-5

3.3.2 Block orders

No specific changes between ETS and MATS. Please see below an illustrative example of block orders to be pasted into MATS.

Block Code	Block ID	BlockCodePRM	MAR	Comment	Price	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
C01	1		1		20	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
C01	2		1		20	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
C02	3	2	1		20	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
C04	4	55	1		20	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
C04	5	55	1		20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
C88	6	66	1		20	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
C88	7	66	1		20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

3.4 Linear orders – new business rules

3.4.1 Zero-volume point

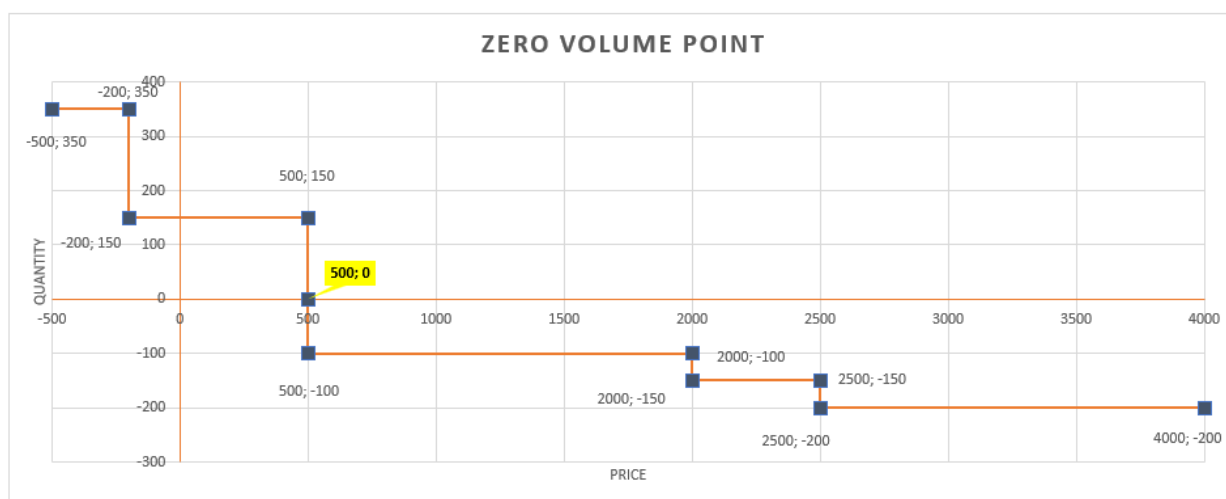
When users define curves in ETS, they may submit both demand and supply (i.e., PURCHASE and SALE) in the same curve without defining a “zero-volume” point. This may

lead to prices with a high number of decimals, which may, on some occasions, create difficulties for the algorithm.

In MATS, if a curve consists of both purchase and sale quantities, then the curve must have **a curve point with zero quantity to separate the purchase & sale quantities**.

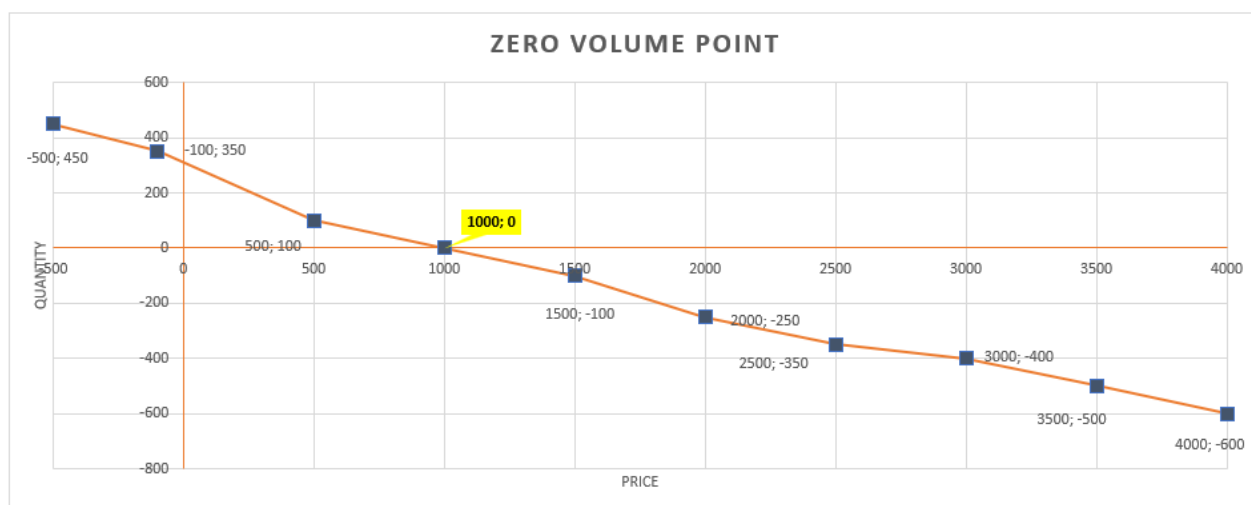
Please see below an example of a linear order curve which consists of **horizontal and vertical segments with zero quantity**. The illustration provided here is for (Portfolio, Bidding Level, Delivery Period) combination.

Price	-500	-200	-200	500	500	500	2000	2000	2500	2500	4000
Quantity	350	350	150	150	0	-100	-100	-150	-150	-200	-200



Please see below an example of a linear order curve which consists of **oblique segments and with zero quantity**. The illustration provided here is for (Portfolio, Bidding Level, Delivery Period) combination.

Price	-500	-100	500	1000	1500	2000	2500	3000	3500	4000
Quantity	450	350	100	0	-100	-250	-350	-400	-500	-600



3.4.2 'Blank' curves

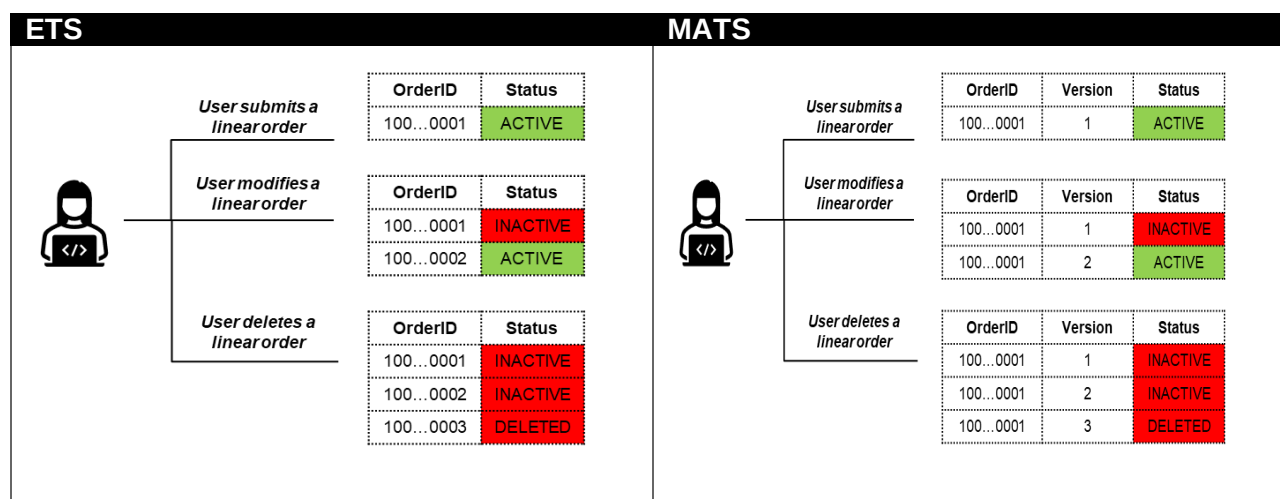
Currently in ETS, users can submit linear curves with only zero volumes as means of expressing their intent of not wanting to buy nor sell; in other words, not wanting to get executed for the given period(s). Moreover, if they skip the period while pasting from Excel, ETS will fill these curves with zeros as well. As this data is not considered during matching process, we are introducing the new rule that will reject curves with only zero volumes.

Illustrative example (when pasting from Excel)

Comment	Period	-500	200	1000	4000
	1	10			10
	2	10	8	6	4
my order	3	8	5	4	3
	6	8	4	0	-4
	10	8	6	4	2

3.5 Linear order versioning

Currently in ETS, every update of a linear order creates a new order ID and effectively replaces / deletes the previous version. In MATS, every update of a linear order will create a new version with the same order ID, which is consistent with other order types (see illustration below).



From a practical point of view, this implies that users relying on (bulk) import or API, must provide the orderID when creating a new version of the linear order. Users pasting the orders into the system are not impacted by this.

4. Market results' changes

4.1 User permissions when viewing results

Currently in ETS, user can see the indexes of each market belonging to a given auction, regardless of whether they are subscribed to or interested in the results of that market.

In MATS, user only sees the indexes of the market(s) to which they are subscribed. For example, if configuration for auction CORE allows the user to submit orders only for e.g. France and Belgium, those are the only two markets they will see in the results.

5. Reports' changes

5.1.1 Trade Report

Detailed specifications of MATS Trade report can be found in MATS Fundamentals document.

Table below provides an overview of differences between ETS and MATS Trade report.

ETS Trade Report	MATS Trade Report	Comparison difference
AreaSetName	Auction	Rename
AuctionName	AuctionName	No change
AuctionDateTime	AuctionDateTime	No change
MarketArea	Market	Rename
+MarketAreaName	+MarketName	Rename
+MarketAreaIndex	+MarketIndex	Rename
++DeliveryStart	++DeliveryStart	No change
++DeliveryEnd	++DeliveryEnd	No change
++PriceIndex	++PriceIndex	No change
+++Currency	+++Currency	No change
+++Price	+++Price	No change
++VolumeIndex	++VolumeIndex	No change
+TradeArea	+BiddingLevel	Rename
++AreaName	++BiddingLevelName	Rename
++AreaTimeZone	++BiddingLevelTimeZone	Rename
N/A	++CurtailementRatioDetails	New
N/A	+++PeriodDuration	New
N/A	+++Period	New
N/A	++++DeliveryStart	New
N/A	++++DeliveryEnd	New
N/A	++++CurtailementRatio	New

++MemberDetail	++MemberDetail	No change
+++MemberName	+++MemberName	No change
+++Order	+++Order	No change
++++OrderID	++++OrderID	No change
++++Portfolio	++++Portfolio	No change
++++OrderType	++++OrderType	No change
N/A	++++OrderPeriodDuration	New
++++OrderEntryTime	++++OrderEntryTime	No change
++++OrderEntryUser	++++OrderEntryUser	No change
++++SettlementCurrency	++++SettlementCurrency	No change
++++BlockOrderDetail	++++BlockOrderDetail	No change
+++++Price	+++++Price	No change
+++++AverageMCP	+++++AverageMCP	No change
+++++MAR	+++++MAR	No change
+++++AAR	+++++AAR	No change
+++++Status	+++++Status	No change
+++++BlockCode	+++++BlockCode	No change
+++++BlockCodePRM	+++++BlockCodePRM	No change
+++++Comment	+++++Comment	No change
+++++Paradoxically	+++++Paradoxically	No change
++++ScalableComplexOrderDetail	++++ScalableComplexOrderDetail	No change
+++++Paradoxically	+++++Paradoxically	No change
+++++Activation	+++++Activation	No change
++++Period	++++Period	No change
+++++OrderPeriodID	+++++OrderPeriodID	No change
+++++TradeID	+++++TradeID	No change
+++++DeliveryStart	+++++DeliveryStart	No change

+++++DeliveryEnd	+++++DeliveryEnd	No change
+++++MarketClearingPrice	+++++MarketClearingPrice	No change
+++++ExecutedVolume	+++++ExecutedVolume	No change
+++++Volume	+++++Volume	No change
+++++Beneficiary_Fields	N/A	Not available
+++++Trading_Capacity	N/A	Not available
+++++Beneficiary	N/A	Not available