

SEMOPx Info – 21 June 2024

Important information – Additional information provided regarding New ETS Feature: Enhanced Reasonable Control Parameters

Dear Member,

In line with the new functionality that was announced as part of the upcoming ETS 3.8.1 release that is planned **to go live on 25 June 2024, First Trading Day (delivery date 26 June 2024)**, which relates to the ETS feature: Enhanced Reasonable Control Parameters, this information document aims to provide additional information which should help support the utilization of the functionality.

Testing of the new RCP functionality is currently available in **ETS Simulation 2**.

1. New ETS feature: Enhanced Reasonable Control Parameters

This enhanced feature will allow traders to define reasonable control parameters (RCP) to set their own checks in the trader client for both **Linear and Scalable Complex Order**. Two additional price step checks will now be monitored in addition to the two checks in the previous version (Pmin and Pmax).

Exceeding the set parameters during an order creation will trigger an alert message to be displayed in the Market Global View message bar whilst the corresponding order will be displayed in yellow in the Market Global View.

The parameter checks are:

- Order side at Pmin/Pmax
- Volume difference at Pmin/Pmax
- Volume difference at P1 (optional)
- Volume difference at P2 (optional)

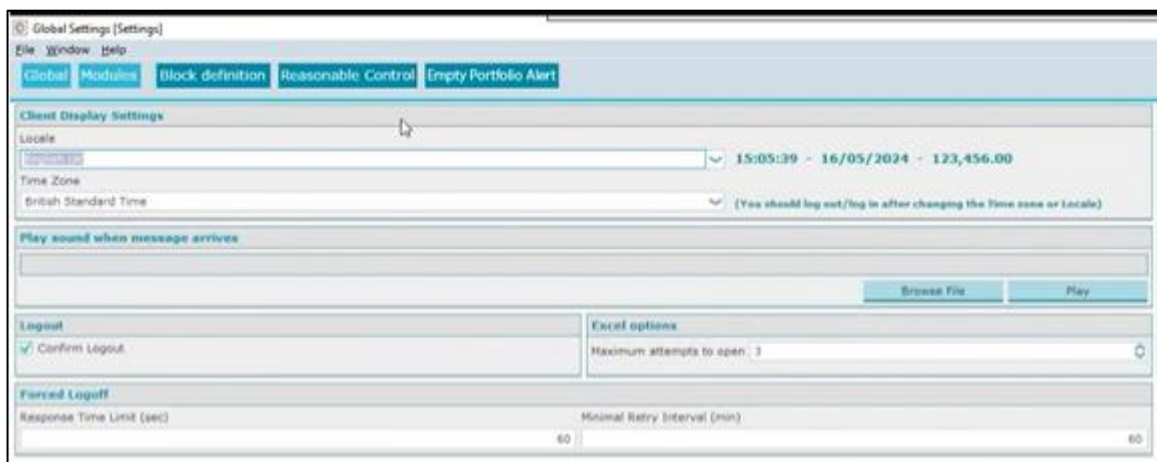
All checks are independent and can be parameters independent from the others, e.g. it is possible for a given price tick check to define only the volume difference at Pmin. **This alert is non-binding: the trader can still submit the order if the check raised an alert. Furthermore, orders issued by an API user which do not respect the parameter checks will also trigger an alert to the API user.**

The Reasonable Control Parameters are defined at the portfolio level, per Area, per duration.

For further information on the Reasonable Control Parameters, please refer to section 7.8 of the ETS Trader Client Guide ([https://www.semopx.com/documents/general-publications/SEMOPx-ETS-Trader-Client-Guide-\(3.8.1\).pdf](https://www.semopx.com/documents/general-publications/SEMOPx-ETS-Trader-Client-Guide-(3.8.1).pdf)).

In order support the utilization of this functionality, SEMOpx have provided a detailed supporting document, outlining the steps needed to implement this functionality, as well as how this can be used.

- a. Locate ETS>Global Settings – “choose Reasonable Control”:



- b. This screen allows updates to be made, relating to the volume differences and PMin and Pmax.

Area	Portfolio	Duration	Volume difference of Price	P1 Price	P1 Volume	P2 Price	P2 Volume	Order side change of Price	Compare With
NI-SONI-DA	GU_S00820	60 min							
NI-SONI-DA	GU_S00821	60 min							
NI-SONI-DA	GU_S00822	60 min							
NI-SONI-DA	GU_S00823	60 min							
NI-SONI-DA	GU_S00824	60 min							
NI-SONI-DA	GU_S00825	60 min							

- c. From here, checks at prices can be set by the member, specifically around the P1 price & vol and P2 price & vol. The user can set a deviation tolerance figure in line with the P1 & P2 price and volumes.

If a deviation is set at the volume defined at that price, if a new volume is higher than the deviation allowed it will generate an alert.

Area	Portfolio	Duration	Volume difference of Price	P1 Price	P1 Volume	P2 Price	P2 Volume	Order side change of Price	Compare With
NI-SONI-DA	GU_S00820	60 min		-200.00	10,000	400.00	10,000	No Check	1
NI-SONI-DA	GU_S00821	60 min							
NI-SONI-DA	GU_S00822	60 min							
NI-SONI-DA	GU_S00823	60 min							
NI-SONI-DA	GU_S00824	60 min							
NI-SONI-DA	GU_S00825	60 min							

In terms of what the price and volumes, along with the deviation, are compared against this can be set in the “Compare With” option. For example, if this is set to “1” it is compared to the previous day, however, if it is set to “7” this is compared to the submissions 7 days ago.

d. Once these settings have been made, the user can submit an order:

Order ID	Area	Ordering	Auction Date/Time	Order Book Status	Duration	Currency	Order	Last Update Time	Order	Last Update Time	Stakeholder Comments	Last Update Time	Order Book
26/05/2024	NI-SONI-DA	GU_500820	PWR-MRC-D+1 2024-05-25-12:00 (sat/est)	OBK Open	60 min	GBP	none	none	none	none	none	none	none
26/05/2024	NI-SONI-DA	GU_500821	PWR-MRC-D+1 2024-05-25-12:00 (sat/est)	OBK Open	60 min	GBP	none	none	none	none	none	none	none
26/05/2024	NI-SONI-DA	GU_500822	PWR-MRC-D+1 2024-05-25-12:00 (sat/est)	OBK Open	60 min	GBP	none	none	none	none	none	none	none
26/05/2024	NI-SONI-DA	GU_500823	PWR-MRC-D+1 2024-05-25-12:00 (sat/est)	OBK Open	60 min	GBP	none	none	none	none	none	none	none
26/05/2024	NI-SONI-DA	GU_500824	PWR-MRC-D+1 2024-05-25-12:00 (sat/est)	OBK Open	60 min	GBP	none	none	none	none	none	none	none

To provide an example on how the functionality will work, an initial submission which will be the benchmark for comparison on the RCP against “Compare With” 1 day has been made below:

Order	Period (start/end)	1,500.00	500.00	500.00	500.00	500.00	9,000.00
23 - 00		5.0	5.0	1.0	1.0	-1.0	-1.0
00 - 01							
01 - 02							
02 - 03							
03 - 04							
04 - 05							
05 - 06							
06 - 07							
07 - 08							
08 - 09							
09 - 10							
10 - 11							
11 - 12							
12 - 13							
13 - 14							
14 - 15							
15 - 16							
16 - 17							
17 - 18							
18 - 19							
19 - 20							
20 - 21							
21 - 22							
22 - 23							
Sum		5.0	5.0	1.0	1.0	-1.0	-1.0

In line with the settings included in the previous RCP inputs screen. The following prices and volumes have been entered below, in relation to the settings in step “C, which will be compared to the submission entry above:

Order (prod/inst)	1,500.00	100.00	500.00	500.00	500.00	5,000.00
23 - 00	20.0	30.0	20.0	20.0	10.0	10.0
00 - 01						
01 - 02						
02 - 03						
03 - 04						
04 - 05						
05 - 06						
06 - 07						
07 - 08						
08 - 09						
09 - 10						
10 - 11						
11 - 12						
12 - 13						
13 - 14						
14 - 15						
15 - 16						
16 - 17						
17 - 18						
18 - 19						
19 - 20						
20 - 21						
21 - 22						
22 - 23						
Sum	30.0	30.0	20.0	20.0	10.0	10.0

Upon submission of the entry, please refer to ETS “GlobalView”.



It is required to choose the date that the order was submitted for, and this should indicate if an error has been generated:

Delivery Day	Area	Portfolio	Auction Date/Time	Order Book Status	Duration	Currency	Linear	Last Update Time	Block	Last Update Time	Scalable Exercise	Last Upd
27/05/2024	NI-SONI-DA	GU_500820	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	Exists	16/05/2024 15:11:51	none		none	
27/05/2024	NI-SONI-DA	GU_500821	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	none		none		none	
27/05/2024	NI-SONI-DA	GU_500822	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	none		none		none	
27/05/2024	NI-SONI-DA	GU_500823	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	none		none		none	
27/05/2024	NI-SONI-DA	GU_500824	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	none		none		none	
27/05/2024	NI-SONI-DA	GU_500825	PWR-MRC-D+1 2024-05-26-12:00 (est/ceat)	OBK Open	60 min	GBP	none		none		none	

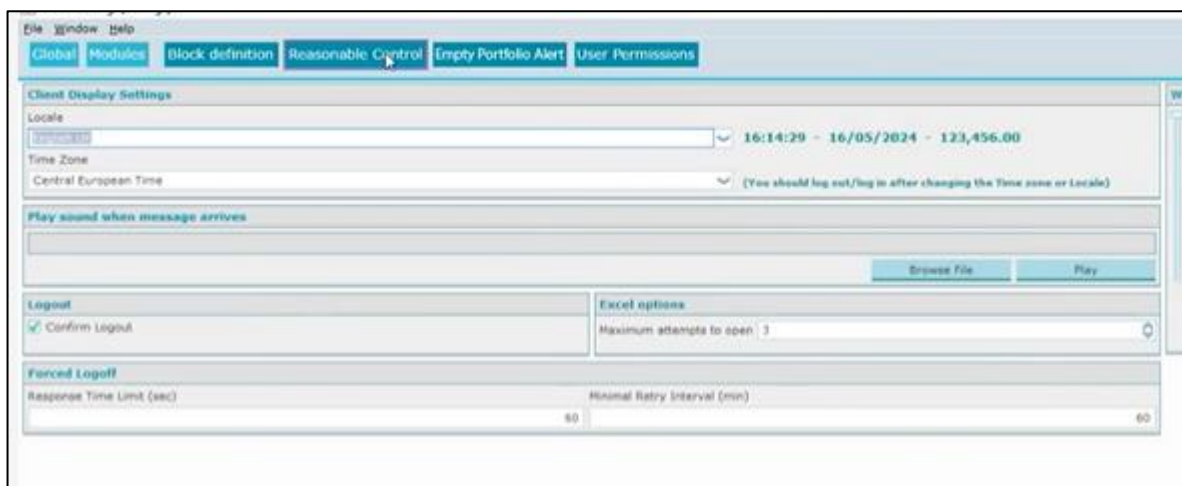
Time	Text
16 May 2024 15:11:51	Submitted LinearOrder GU_500820 / NI-SONI-DA / 60 min / 2024-05-26-12:00 / AESKIL-U3
16 May 2024 15:11:51	Reasonable Control Price Volume Invalid Status For 27 May 2024 to NI-SONI-DA for GU_500820
16 May 2024 15:09:44	Submitted LinearOrder GU_500825 / NI-SONI-DA / 60 min / 2024-05-26-12:00 / AESKIL-U3

For this example, the deviation is too high, highlighting that an error/issue has been encountered – states that it relates to the Price Volume deviation check that was put in place.

The error highlighted is in “Yellow” with additional information contained in the “Messages” section.

- e. To make these settings, this is the responsibility of the ETS Super User for a member. The Super User will set the default Reasonable Control Parameters for the whole company, unless stating otherwise

Locate ETS>Global Settings – “choose Reasonable Control”:



- f. For a Super User the option will be there twice, one at the top is the default / super user settings. If applied from there, it will be applicable to the whole organization. The table below relates to the super user only, whatever settings are placed there relate only to that super user.

THIS IS ALSO SET FOR ALL API USERS FROM HERE

Area	Portfolio	Duration	Volume difference at Price	Volume difference at Price	P1 Price	P1 Volume	P2 Price	P2 Volume	Order side change at Price	Order side change at Price	Compare with	Report from Excel	Export to Excel
NI-SONI-DA	GU_500820	60 min							←	←	←	←	←
NI-SONI-DA	GU_500821	60 min							←	←	←	←	←
NI-SONI-DA	GU_500822	60 min							←	←	←	←	←
NI-SONI-DA	GU_500823	60 min							←	←	←	←	←
NI-SONI-DA	GU_500824	60 min							←	←	←	←	←
NI-SONI-DA	GU_500825	60 min							←	←	←	←	←

- g. User Permissions can also be updated by the Super User:

Locate ETS>Global Settings – choose “User Permissions”



If the Super User gives a user access to update their own RCP settings, then the user can deviate from the company’s default settings i.e. change their own strategy. If unticked, they cannot change anything, they are bound by the settings placed by the super user:

Users						
Login Name	User					
AESKLR01AP1	AESKLR01AP1					
AESKQL-U3	AESKQL-U3					
AESKQL-U5	AESKQL-U5					
AESKQL-U6	AESKQL-U6					
AESKQL-U7	AESKQL-U7					
AESKQL-U4	AESKQL-U4					
AESKQL-U8	AESKQL-U8					
AESKQL-U1	AESKQL-U1					
AESKQL-U2	AESKQL-U2					

Permissions						
Portfolio	Area	Read	Write	SCP		
GU_500820	NI-SONS-DA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500820	NI-SONS-IDA1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500820	NI-SONS-IDA2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500820	NI-SONS-IDA3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500821	NI-SONS-DA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500821	NI-SONS-IDA1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500821	NI-SONS-IDA2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500821	NI-SONS-IDA3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500822	NI-SONS-DA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500822	NI-SONS-IDA1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500822	NI-SONS-IDA2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500822	NI-SONS-IDA3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500823	NI-SONS-DA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500823	NI-SONS-IDA1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500823	NI-SONS-IDA2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GU_500823	NI-SONS-IDA3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

2. Retrieve Reasonable Control Parameters order alerts via the API

Reasonable controls (RC) consist in automatic checks made **on linear orders and SCOs that have been accepted** by ETS, to assess whether they are “reasonable”.

The related **Reasonable Control Parameters (RCPs)** can be configured by **Member ETS Super Users in the ETS Client, or by an authorized trader** (API users cannot configure RCPs).

As of ETS 3.8.1, ETS API apps benefit from RCP alerts for orders submitted via an app API user if controls have been setup.

The ETS API will indicate any **potential RCP notifications as one or several Warnings** (OA 061) **in the *EnterOrderResponse* message of linear orders and SCOs accepted by ETS.**

Example of message received by the API user who submitted the order:

```
<ns:EnterOrderResponse>
  <EnterOrderAcknowledgement>
    <ns:state>ACK</ns:state>
    <ns:warning>
      <ns:errorId>OA 061</ns:errorId>
      <ns:errorText>Reasonable Control Volume Pmin Invalid Status for 23 May 2024
        in ROI-EIRGRID-DA for SU_123456</ns:errorText>
    </ns:warning>
    <ns:OrderId>10000014243700</ns:OrderId>
  </EnterOrderAcknowledgement>
</ns:EnterOrderResponse>
```

Note: this functionality works with all API schemas (which all support Warning tags, as detailed in our ETS API package *01-ETS API Client Application Design Guide* document).

Please do not hesitate to contact us at info@semopx.com should you require any further information.

Kind regards,

SEMOpX Team