SEMOpx Info – 27 August 2020

New ETS 3.4.6 version to be launched on 30 September

Dear SEMOpx Member,

Following the postponement of the ETS 3.4.4 version, we would like to provide you with the most up to date information and the upcoming deployment of the new ETS 3.4.6 version, planned for 30 September 2020. In this communication we would like to provide important information related to the new ETS release.

Again, we would like to apologise for the inconvenience this delay has caused and thank you for your cooperation, efforts and understanding.

What are the steps taken since the go-live postponement?

- In close cooperation with our service provider, we have developed a new ETS version 3.4.6 that does not contain the security updates planned to be deployed with the previous versions (ETS 3.4.2 and 3.4.4).
- This will allow you to connect to ETS in the same way and with the same settings as with the current version in production.
- The planned security updates for ETS will be deployed with the following version, expected early 2021, and implemented in such a way that limits efforts on your end.

Important information – Action required

- New ETS 3.4.6 version go-live scheduled on **30 September 2020** (first trading day), subject to successful testing
- New functionalities with ETS 3.4.6:
  - Block Graph
  - Password Reset
  - Complex Orders for the Intraday Auctions (IDA1, IDA2, IDA3)
- ETS API 3.4.6:
  - API Trading limit bug fixes
  - **Mandatory:** decommission of old API schemas 2.10 and 3.0
  - If upgrading to the new API 3.4.6 schema:
    - Mandatory changes: warnings vs errors, new error tag, Update Password
    - Optional: Password Reset, Retrieve trading limits, optimize market results and trade report retrieval (*Auction Max Cancellation Time* from the API)
  - API Trading Limit bug fixes in API 3.4.6
    - New WSDL
    - Short company names to be used
- ETS 3.4.6 will be available in Simulation 2 environment as of 2 September 2020

- **Member test: 22 September 2020**
- **Members connected in SIMU2 with ETS version 3.4.4 must manually download and install version 3.4.6 to connect as of 02/09**

ETS 3.4.6 go-live

New ETS 3.4.6 Version

The new ETS 3.4.6 version is planned to go live on **30 September 2020 (first trading day),** subject to successful testing. The Member test will take place on 22 September 2020.

For members using the Upgradable version of ETS client, the new client will upgrade automatically to adapt its version to the one used by the ETS server when logging in.

For members using the Fixed version of ETS client, the new version has to be installed. An ETS installation guide can be found on our website click here.

For detailed information on the functionalities, the ETS user guide can be found on our website click here.

New Functionalities with ETS 3.4.6

Password reset

A new functionality will be introduced with ETS 3.4.6, enabling users to change the forgotten, expired and locked passwords through the client. From the main welcome screen, the user can access the 'change password' feature and will get a validation code via email to enter the new password. Users can then handle their password reset autonomously without contacting SEMOpx Market Operations.

In order to activate this functionality, please make sure to provide us with the email address(es) to be associated with your respective ETS user(s).

Block graph

As of the ETS 3.4.6 version go-live, users can visualize graphs related to the submitted blocks.

This feature can be accessed through the block submission screen. Different options such as block profile, block period coverage, block generation and block cumulated volume will be available.

Complex Orders

As of the new ETS 3.4.6 we offer you the possibility to use the complex orders in all of our Intraday Auctions (IDA1 / IDA2 / IDA3) to complement the products that we already offer in ETS.

The complex orders will be activated for all your users and portfolios automatically as of 30 September. No request or registration will be needed.

Simulation environment

For members using **the Fixed version of ETS client**, the new version has to be installed.
An ETS installation guide can be found on our website click here.

Member tests

Please find below the auction that will be run on 22/09/2020 and its orderbook closure time (in CET). Market results will be published shortly afterwards:

Date	Scenario	SEM IDA2*	SEMOPX DAM*	SEM IDA1*	SEM IDA3
22/09/20	Normal	**09:00 *BST/IST***	**12:30 *BST/IST***	**13:00 *BST/IST***	**13 :30 *BST/IST***

*Only one step publication with final prices.

To participate in the member test, you just need to submit your orders on the ETS Simulation 2 environment, no registration is required. Orders can be submitted in advance.

Please pay special attention on submitting your orders in advance for IDA2 as it will be ran at 09:00 BST/IST.

User and password will be provided upon request by sending an email to marketops@ops.semopx.com.

Go-live preparation

The go-live of the new release is planned on **30 September 2020 (1st Trading Day).** A maintenance is planned on the **29 September as of 18:40 BST/IST.**

The Production server address remains the same: **ets.svpx.epexspot.com port 443.**

For detailed information on the functionalities, the ETS user guide can be found on our website click here.

ETS API 3.4.6

Compared to the previous 3.4.3 version, the new 3.4.6 API schema contains only minor changes related to Trading Limit requests.

If you already implemented any 3.4.x API schema we recommend upgrading to the new 3.4.6 API schema.

Changes in 3.4.6: delta with 3.4.3

Changes in 3.4.6 only required if you implement Trading Limits via the API

- **New 3.4.6 WSDL**: Participants short names must be used instead of long names (harmonization with all other API requests / responses)
- **Trading limit Bug fixes**:
  - ETS now sends a nonempty response when sending a *RetrieveTradingLimits* request with more than one Settlement Member
  - *RetrieveSettlementMemberAndCentralCounterPartyNamesResponse* request: <centralCounterPartyMemberID> now contains the value *MEMEX* (instead of *European Commodity Clearing*)

ETS API 3.4.x package update reminder

As already detailed in our previous communication on ETS 3.4, this ETS version along with the ETS API schema 3.4.6 introduces the following new functionalities and changes:

1) **Mandatory**: as previously announced, API schemas 2.10 and 3.0 will be decommissioned
2) **New functionalities** included in the 3.4 API schema version (schema upgrade + API end point ending by 3.4 required):
   - New requests to retrieve your member **Trading Limits (TL)**
   - The possibility to implement a **reset password** functionality from your API application.
   - Mandatory changes if upgrading to the new 3.4.6 schema:
     a) A more secure **UpdatePassword** request requiring the new and the previous password replaces SetNewPassword
     b) A distinction between **warnings** and real errors
     c) A change in the error tag: <ns:errors> becomes <ns:error>
   - The possibility to enhance your Market results / Trades retrieval implementation: the *Auction Max Cancellation Time* becomes available in the *Retrieve Auction Information* request
   - Sample requests available for new features
3) **API Conformance Testing**

Supported and decommissioned API schemas

As already communicated along with ETS 3.3, the old API schemas 2.10 and 3.0 cannot be used anymore with ETS 3.4. If you are still using them you should have already received an email from Market Operations detailing how to upgrade your API application to the 3.3.2 or 3.4.6 API schemas.

Please keep in mind that as of schema 3.2 the ETS API enables to retrieve Market results status, which significantly eases the related implemented (please refer to the API package "Terms Of Reference" document for further details).

Should you have any doubt please test your API application against our SIMU2 environment where the ETS 3.4.6 version is installed:

API Schema	Main introduced changes per API schema	ETS (and ETS API) version		
		ETS 3.3.2	ETS 3.4.6	ETS 3.5 Q4 2020
API 2.10	(Initial schema)	Supported	**Decommissioned**	Not supported
API 3.0	-	Supported	**Decommissioned**	Not supported
API 3.2	• EnterBlockOrderBatch: Minimum Acceptance Ratio for curtailable blocks • New methods for Loop Blocks	Supported	Supported	Decommissioned
API 3.3.2	• Market Results status (Unavailable, etc.) • Trade Report introduction (trade Id) • Market results available to Non Market Participants	Supported	Supported	Supported
API 3.4.6	• New Methods to retrieve Trading Limits • Reset Password • Update Password • Warnings distinguished from Errors • The errors tag becomes error • Market results retrieval: RetrieveAuctionInformation enriched with Auction Max Cancellation time	N/A	Supported	Supported
API 3.5	• Certificates: TLS 1.3 • Decommission of TLS v1.0 and 1.1 • Security updates: decommission of old cipher suites (*)	N/A	N/A	Supported

(*) Please find more details in the attached API package, Certificates document.

1. ETS 3.4.x schema: Decommissioning of deprecated tags

Deprecated tags are old tags that SEMOpx still supports but only for backward compatibility reasons.

In general, we recommend you to stop using these deprecated tags and use the supported ones instead, to upgrade more easily to the latest API schema.

These deprecated tags are decommissioned in the 3.4.x API schema: if you migrate to the 3.4.x schema to benefit from the new functionalities, please make sure you adjust your API app.

Applications sticking to API schemas 3.2 and 3.3.x will still be able to use these deprecated tags.

Note: When using these tags, please be aware that the API server will insert a warning message in the response: **Used deprecated Choice: <deprecated tag name>**.

Though until 3.3.2 this warning is sent in an "error" tag, this is not related to any real error but to warn you that your application is using an old tag.

Please refer to the document >1-API specifications>**ETS API 3.4 Deprecated Tags Decommission List.pdf in the attached API package**.

2. **New functionalities** included in the 3.4 API schema version

2.1 Methods to retrieve the Trading Limits (3.4.x API schema only)

Trading limits (TL) have been implemented in ETS since the very beginning. The ETS API has always sent an error message when an order exceeding the TL was submitted. What is new as of the 3.4.6 API schema is that API applications can now retrieve these TLs.

Three new requests are available to do that:

- RetrieveTradingLimits: to retrieve TLs information (e.g. TL ID, TL version, initial limit, current limit, exposure) for a given TL day, with several filtering options
- RetrieveTradingLimitExtendedDetails:
  - to request the details of a specific TL (identified by its ID and version)
  - The API responds with the list all (area/ Portfolio) combinations linked to a specific TL ID/version, as well as the period for which the TL applies.
- RetrieveCentralCounterPartyAndSettlementMemberNames:
  - This request enables to retrieve the CCP and the different Settlement Member (SM) names related to the connected API user member, to potentially reuse them in the RetrieveTradingLimits request/response content (as a input filter, or as a reference to interprete the SM names in the reponse).
- RetrieveCentralCounterPartyAndSettlementMemberNames:
  - This request enables to retrieve the CCP and the different Settlement Member (SM) names related to the connected API user member, to potentially reuse them in the

RetrieveTradingLimits request/response content (as a input filter, or as a reference to interprete the SM names in the reponse).

- As a result:
  - Members having the possibility to access other member portfolios (specific configuration) to retrieve and well TL info/restrictions at the right level
    - New optional input parameters enable to filter the response by:
      - Market participant (member)
      - Area
      - Portfolio
  - members having TL restrictions by portfolio to get the details of these restrictions from the API (new area/portfolio output parameters)
    - Please check the attached sample request and response to illustrate this.

Please refer to the API package >01-API specifcations>01-ETS API Client Application Design Guide>5. Zoom on functional areas>5.2 Trading Limits for more details and check above the bug fixes contained in the 3.4.6 schema.

Please pay a special attention to the requirements in terms of maximum TL request frequency (retrieve all your TL information maximum every 3 seconds, must be configurable), which led to an amendment of our **Terms of Reference**.

For ISVs wiling to implement a Trading limits retrieval in their API app:

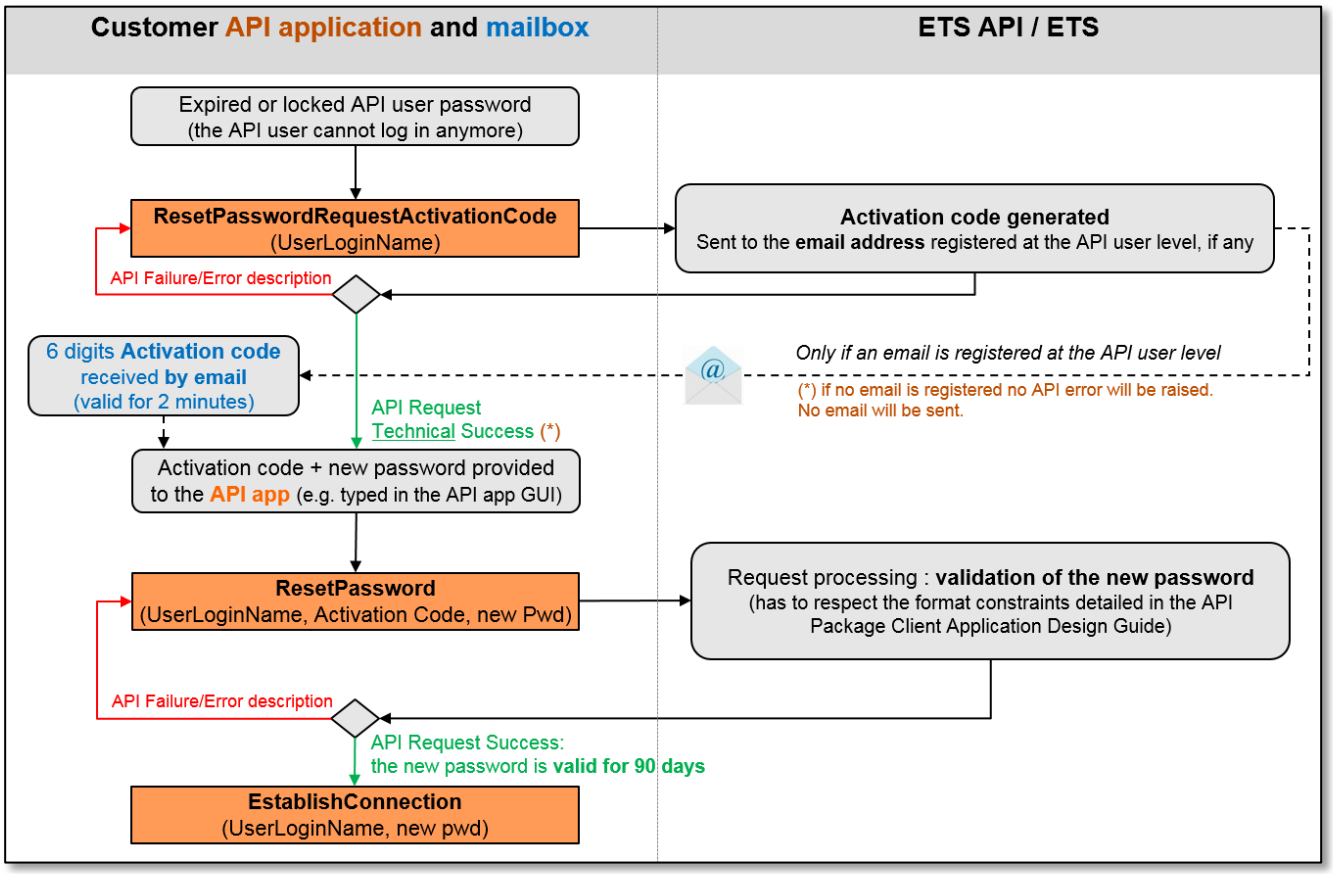
- please note that by default only members have a trading limit defined in ETS Test environments, ISVs having no trading limits setup, which functionally means an “inifinite limit”
- This means you need to **contact Market operations and provide us with your TL details** to get an actual TL set up in ETS if interested.

Reset API user password (3.4.x API schema only)

Until ETS API 3.3 the only way to get your API user password reset once expired or locked is to contact Market operations.

The 3.4.x schema along with ETS 3.4 enables you to **implement a Reset API user Password functionality directly from your API application**, without having to get in touch with Market operations.

The new password is **valid for 90 days**.



- Please refer to the API Package >01-API Specifications>ETS API Client Application Design Guide>5. Zoom on functional areas>5.1 API user password management for more details (including the format requirements to meet with the new password) and sample requests.

As stated in previous communications, there are 2 prerequisites to get the API reset password functionality working:

2.2.1 - Upgrade your application to the 3.4.x schema (3.4.6 recommended)

2.2.2 - SEMOpx to collect the email addresses (one per user) to which the password reset activation code will be sent, and register this email address at the API user level in ETS.

You can always contact Market operations if interested in that functionality: we can still assign the desired email address to your API user in ETS in the SIMU2 test environment so that you can design and test this functionality.

Mandatory changes if upgrading to the new 3.4.6 schema

2.3.1 - New UpdatePassword method, SetNewPassword obsolete (3.4.x API schema only, SetNewPassword becomes obsolete)

A new **UpdatePassword** API method is introduced requiring the old password as an input parameter.
Please note that if you use this new API 3.4.x schema it is mandatory to replace your **SetNewPassword** method by this new one, which is more secure since the old password is required as an input parameter.

The new password is valid for 90 days.

Note: The **SetNewPassword** method is still technically available in the schema, but becomes obsolete and will not change any password. Instead an error message will be sent back:

```
<SOAP-ENV:Body>
   <ns:SetNewPasswordResponse>
      <SetNewPasswordAcknowledgement>
         <ns:state>NAK</ns:state>
         <ns:error>
            <ns:errorId>OA 217</ns:errorId>
            <ns:errorText>Obsolete message. Use UpdatePassword.</ns:errorText>
         </ns:error>
         <ns:passwordInformation>Password not changed. See errors for further details</ns:passwordInformation>
```

- UpdatePassword:
  - Inputs: sessionKey, userLoginName, oldPassword, the new password
  - Output: status (success or failure with error description), passwordInformation (e.g. "Password changed. Valid until: 2020-06-22")

2.3.2 - A distinction between **warnings** and real errors
(3.4.x API schema only)

Until ETS API schema 3.3.2 the ETS API replies with an error code even when a warning is raised (e.g. Deprecated tags), which can be confusing.

The 3.4.6 API schema introduces a new <ns:warning> tag.
There is no change in the errorId or errorText. The only difference is the change in the main xml tag **<ns:errors>, which at the same time become <ns:error> (no final 's')**

2.3.3 - A change in the error tag: <ns:errors> becomes <ns:error>

Example :

ETS API schema version < 3.4	As of schema 3.4.x
<ns:errors> <ns:errorId>OA 014</ns:errorId> <ns:errorText>Area: [Area] not found or no Permission</ns:errorText> **</ns:errors>**	**<ns:warning>** <ns:errorId>OA 014</ns:errorId> <ns:errorText>Area: [Area] not found or no Permission</ns:errorText> **</ns:warning>**
<ns:errors>	**<ns:error>**

<ns:errorId>OA 001</ns:errorId> <ns:errorText>Login Denied: No Credentials</ns:errorText> **</ns:errors>**	<ns:errorId>OA 001</ns:errorId> <ns:errorText>Login Denied: No Credentials</ns:errorText> **</ns:error>**

The following codes are concerned:

(OA 016) Cannot resolve delivery Date ...
(OA 022) Cannot resolve Area ...
(OA 116) No Auction found for Delivery Date ...
(OA 029) Missing Information to identify an Auction ...
(OA 023) Cannot resolve Portfolio ...
(OA 017) ... TimeInterval is required in this context
(OA 116) Multiple Auctions for Delivery Date ...
(OA 118) Multiple Auctions [for] ...
(OA 027) Cannot resolve Multiple Durations
(OA 028) Currency ... does not correspond to the (area/portfolio) combination
(OA 014) Area: ... not found or no Permission
(OA 002) Area Setting not found for: ...
(OA 117) No Auction found [for] ...
(OA 004) [No] Block order [with criteria] ... have been ... [not] found ...
(OA 026) Complex Order [with Identification:] ... has not been found
(OA 021) Daily order [with Identification:] ... has not been found
(OA 005) Hourly order [with Identification:] ... has not been found
(OA 013) Entered a wrong Period [starting at] ... [for] ... [because of]... [Auction Name] ... [Auction Time] ...
OA 034) Member: ... not found
(OA 015) Portfolio: ... not found or no Permission
(OA 041) No trading limit

2.4 Market results and Trade Report automatic retrieval: Auction Maximum cancellation time available in RetrieveAuctionInformation method (3.4.6 API schema only)

Impacted API method: RetrieveAuctionInformation

A new xml tag <ns:maxCancellation> is available in the response of the API method RetrievAuctionInformation. This new xml tag provide the auction maximum cancellation date time in UTC format.

As explained in the ETS API package “Terms of Reference” document, market results (and trade reports) must be automatically/periodically retrieved only between:

- the Auction Theoretical Publication Time
- and the Auction Max Cancellation Time + 10 a margin of minutes.
    - Additional isolated manual requests after this 2nd date/time are authorized (e.g. for recovery procedures).

So far only the Auction Theoretical Publication Time was available via the API. The introduction of this new data enables you to remove any static value from your implementation.

3. API Conformance tests

Only API applications that will implement Trading Limits requests will have to go through a conformance test before going in production. **A conformance test is planned during the Member Test on 22/09/2020.**
No conformance test is required for other 3.4 functionalities.

Simulation environment

For testing purposes, SEMOpx offers 2 simulation environments. **Please note that 'Simulation 2' environment will be used for ETS 3.4.6 member tests.**

Environment	**SIMULATION 1**
Deployment date	Already available
ETS version	3.3.2
ETS Server address	ets-simu1.svpx.epexspot.com port 4443
API hostname	ets-simu1.svpx.api.epexspot.com
API port	4444
API end point	https://ets-simu1.svpx.api.epexspot.com:4444/OpenAccess/OpenAccess (if using the 2.10 schema) https://ets-simu1.svpx.api.epexspot.com:4444/OpenAccess/3.0 (if using the 3.0 schema) https://ets-simu1.svpx.api.epexspot.com:4444/OpenAccess/3.2 (if using the 3.2 schema) https://ets-simu1.svpx.api.epexspot.com:4444/OpenAccess/3.3 (if using the 3.3.2 schema)
API WSDL version	WSDL v 3.3 ; Supported API schemas: 2.10, 3.0, 3.2, 3.3.2 To retrieve the WSDL : https://ets-simu1.svpx.api.epexspot.com:4444/OpenAccess/3.3?wsdl

Environment	**SIMULATION 2**
Deployment date	Deployment of the new release on 02/09/2020 EOD
ETS version	3.4.6
ETS Server address	ets-simu2.svpx.epexspot.com port 4443
API hostname	ets-simu2.svpx.api.epexspot.com
API port	4444
API end point	https://ets-simu2.svpx.api.epexspot.com:4444/OpenAccess/3.2 (if using the 3.2 schema) https://ets-simu2.svpx.api.epexspot.com:4444/OpenAccess/3.3 (if using the 3.3.2 schema) https://ets-simu2.svpx.api.epexspot.com:4444/OpenAccess/3.4 (if using the 3.4.6 schema)
API WSDL version	WSDL v3.4 Supported API schemas: 3.2, 3.3.2, 3.4.6 To retrieve the WSDL : https://ets-simu2.svpx.api.epexspot.com:4444/OpenAccess/3.4?wsdl

Full details about SEMOpx environments can be found on the SEMOpx website.

Please do not hesitate to contact us should you require any further information.

Yours faithfully,

The SEMOpx Team