SEMOpx Info – 19 May 2020

New ETS 3.4.2 version to be launched on 30 June 2020

Important information – Action required for all ETS clients (fixed and upgradable)

- New ETS 3.4.2 version go live date scheduled on 30 June 2020 (first trading day), subject to successful testing
- New functionalities with ETS 3.4.2 version: password reset
- Security updates to ensure best practices related to management of security certificates
- ETS API 3.4.2:
    - Mandatory: decommission of old API schemas 2.10 and 3.0
    - Available only if upgrading to the new API 3.4.2 schema:
        - Mandatory if upgrading: 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)
    - New ETS API package
- ETS 3.4.2 will be available in Simulation 2 environment as of 19 May 2020 end of day
- Member tests will take place on 11 and 18 June 2020
- Update of Submission on Behalf (SOBT) process as of 3 June 2020 (first trading day)
- 30 Minute Complex Order with same specification as the Day-Ahead Complex Order with 48 Trading Periods
    - Scheduled Stop condition is relevant to three periods, meaning three 30 minute periods (not three 60 minute periods in the Day-ahaead market)
    - All other conditons are the same as 60 minute product including output files

Dear SEMOpx Member,

ETS 3.4.2 go-live

We are pleased to inform you that SEMOpx will introduce a new ETS 3.4.2 version on 30 June 2020, subject to successful testing. Member tests will take place on 11 and 18 June 2020. The new ETS client will be available for download on SEMOpx website **(click here)** and accessible via the Simulation 2 environment as of 19 May 2020 end of day.

For members using **the Upgradable version of ETS client**, the new version of the upgradable client 3.4.2 has to be installed. This new version of ETS client (3.4.2) can be installed in parallel to the current ETS client (3.3.202). Unlike previous Go Lives, the previous versions will **not upgrade** automatically to adapt their version to the one used by the ETS server when logging in (3.4.2).
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).**

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).**

Changes in ETS client

1. Password reset

The new ETS 3.4.2 version will enable users to change the forgotten, expired and locked passwords throught 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 now handle their passwords reset autonomously without contacting SEMOpx Market Operations.
With regard to the password reset functionality being implemented. SEMOpx registration have begun contacting Authorised Contacts for each user login directly, in order to confirm which email address should be specified for use when requesting password resets for a given login.

2. Security updates

Update of the security certificates together with a change in the certificate authority. This will ensure security is aligned with latest market standards and best practices. These changes in the certificate handling will not have an impact on the functioning of the client. These changes in the certificates are the reason why a new upgradable client needs to be installed.The functioning of the client will not be impacted in any other way.

Changes in the SOBT process

The Submission On Behalf process will change as of 3 June 2020 (first trading day).
In case of activation of the process, the bidding forms will no longer be attached to the email but will be available in the Submission on Behalf Interface which URL remains in the email.

Simulation environment

For testing purposes, SEMOpx offers 2 simulation environments. **Please note that "Simulation 2" environment will be used for ETS 3.4.2 member tests.**

For members using **the upgradable version**, the new version of the upgradable client 3.4.2 has to be installed. Unlike previous Go Lives, the previous versions of the upgradable client will not upgrade automatically to adapt their version to the one used by the ETS server (3.4.2).

For members using **the fixed version**, the new version must be installed.

The new ETS Client and Installation Guide can be found on our website **(click here).**

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	19/05/2020 EOD
ETS version	3.4.2
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 3.4.2 schema)
API WSDL version	WSDL v3.4 Supported API schemas: 3.2, 3.3.2, 3.4.2 To retrieve the WSDL : https://ets-simu2.svpx.api.epexspot.com:4444/OpenAccess/3.4?wsdl

Member tests

Please find below the auctions that will be run on the two test dates and their respective orderbook closure times (in BST/IST). Market results will be published shortly afterwards.

Dates	Scenarios	SEMOPX DAM*	SEM IDA1*	SEM IDA2*	SEM IDA3
11/06/20	Normal	13:30	14:00	15:00	14:30
18/06/20	Normal	13:30	14:00	15:00	14:30

*Only one step publication with final prices.

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

Login and password will be provided upon request.

ETS API 3.4.2 Impacts

This new version of ETS along with the new ETS API schema 3.4.2 introduces the following new functionalities and changes:

1. Mandatory: as previously announced, API schemas 2.10 and 3.0 are 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).
        - Please note that a 2nd version of the WSDL will follow in June with a minor change (more details below)
    - The possibility to implement a **reset password** functionality from your API application
    - Mandatory changes if upgrading to the new 3.4.2 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

The attached ETS API package has been updated with the below API changes and enhancements and contains as well a more detailed version of the “ETS API Certificates” document (to better accompany newcomers)..

1. 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 stil 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 3.4.2 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 3.4.2 version is installed.

API Schema	Main introduced changes per API schema	ETS (and ETS API) version		
		ETS 3.3.2	ETS 3.4.2	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 3.4.2	• 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.

ETS 3.4.2 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 3.4.2 API schema: if you migrate to the 3.4.2 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. **Methods to retrieve the Trading Limits** (3.4.2 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 3.4.2 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).
  - **Please note that a 2nd version of this request will be published in June** with additional input and output parameters: **another of the WSDL will be communicated** and deployed into SIMU2.
  - This modification will enable the few members having TL restrictions by portfolio to get the details of these restrictions from the API.
  - This should not prevent you from starting and progressing quite far with your implementation.

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.

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 a amendment of our **Terms of Reference.**

API applications that will implement **Trading Limits** requests will have to go through a **Conformance Test** before going in production.

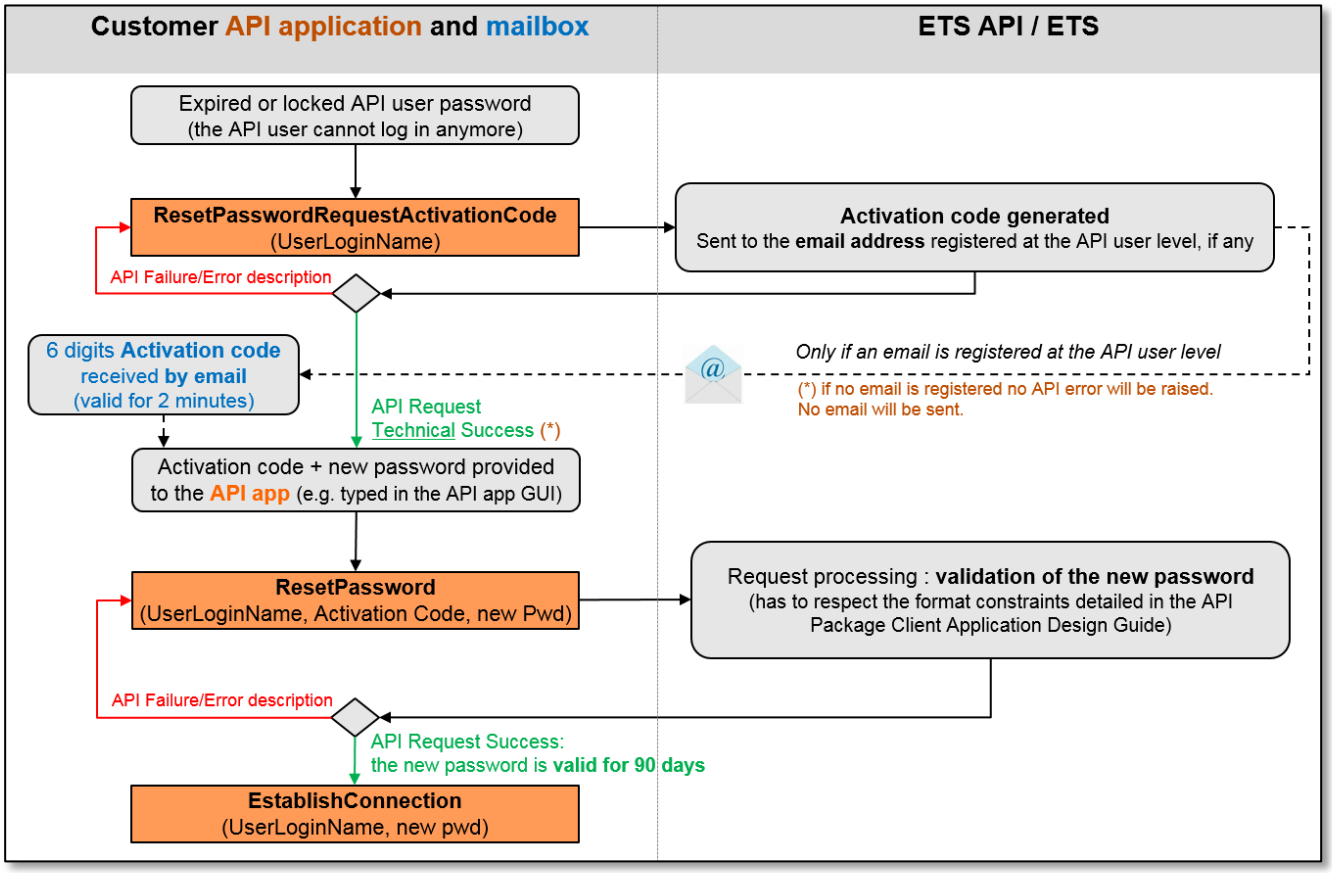
For ISVs wiling to implement a Trading limits retrieval in their API app:

- 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.

3. **Reset API user password** (3.4.2 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 3.4.2 schema along with ETS 3.4.2 enables you to i**mplement 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.

4. **New *UpdatePassword* method, *SetNewPassword* obsolete** (3.4.2 API schema only, SetNewPassword becomes obsolete)

A new ***UpdatePassword*** API method is introduced requiring the old password as an input parameter.
Pleas note that if you use this new API 3.4.2 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")

5. Explicitely distinguish warnings from errors (3.4.2 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 3.4.2 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')**

Example :

ETS API schema version < 3.4.2	As of schema 3.4.2
<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:errorId>OA 001</ns:errorId> <ns:errorText>Login Denied: No Credentials</ns:errorText> **</ns:errors>**	**<ns:error>** <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

6. **Market results and Trade Report automatic retrieval: Auction Maximum cancellation time available in RetrieveAuctionInformation method** (3.4.2 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.

7. **API Conformance tests**

Only API applications that will implement **Trading Limits** requests will have to go through a **Conformance Test** before going in production.
No conformance test is required for other 3.4.2 functionalities.

Please refer to the 'Simulation environment' and 'Member tests' sections above for information on simulation environment, member test dates, timings and scenarios.

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

Yours faithfully,
The SEMOpx Team

