

FAQ

Public message interface (API)

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1. Introduction

a. Audience

This document is addressed to the first level support team of EPEX SPOT and to members which are using the ETS API in general.

b. Purpose

The purpose of this document is to answer frequently asked Questions concerning the ETS API Public message interface for WSDL 1.9 and higher versions. This document can be used by API users or by the first level support of EPEX SPOT in order to resolve potential problems when using the ETS public message interface. This document will be regularly updated to contain as much information as possible to facilitate its use.

2. Questions/Answers

a. Functional questions

QUESTION: Can I use my ETS client user/password couple with the API?

A1: No, you need to have a new user/login couple which will only work with the API client

QUESTION: Connection is possible, but I'm not able to login to the ETS server via my API client. Why?

A1: Verify the API user and password.

QUESTION: Is the results data file from the API the same as the results file downloaded currently?

A1: Please find below an example of a result message generated by the API

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="urn:openaccess">
  <SOAP-ENV:Header>
    <ns:AsynchronousResponseHeader SOAP-ENV:mustUnderstand="1">
      <ns:asynchronousResponse>false</ns:asynchronousResponse>
      <ns:responseToken/>
    </ns:AsynchronousResponseHeader>
    <ns:ResponseLimitationHeader SOAP-ENV:mustUnderstand="1"/>
    </ns:ResponseLimitationHeader>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <ns:RetrieveMarketResultsForResponse>
      <RetrieveMarketResultAcknowledgement>
        <ns:state>ACK</ns:state>
        <ns:marketResults>
          <ns:area>CH-SGD</ns:area>
          <ns:marketResultExport>Delivery Day;16/04/16
;CH;
;Price Index (EUR/MWh);Volume Index (MW)
H1;3000,00;0,0
H2;3000,00;0,0
H3;3000,00;0,0
H4;3000,00;0,0
H5;3000,00;0,0
H6;3000,00;0,0
H7;3000,00;0,0
H8;3000,00;0,0
```

[illegible]

[illegible]

```
Area;Portfolio;Block Id;BlockCode;BlockCodePRM;Comment;Status;av
MCP;Price;H1;H2;H3;H4;H5;H6;H7;H8;H9;H10;H11;H12;H13;H14;H15;H16;H17;H18;H19;H20;H21;H22;H23;H24</ns:marketResultsExport>
</ns:marketResults>
</RetrieveMarketResultAcknowledgement>
</ns:RetrieveMarketResultsForResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

QUESTION: Do changes of price limits in ETS concern the API?

A1: Changes of Pmin/Pmax values can be done in ETS by Market Operation. In order to send orders via the API the changed price limits has to be taken into account.

QUESTION: Will it still be possible to edit and/or cancel Orders put through the EPEX Client?

A1: Yes, if the API user has the correct rights, this will be possible

QUESTION: Is it planned to include a function replacing the results file and allowing for direct call of results data?

A1: In a later release it is foreseen to have a direct call of results data (and also to subscribe for results data); developments for this future release have not started yet.

QUESTION: Is it planned to include a function that cancels all block orders or hourly orders for one day?

A1: Such a function is not planned for the moment, but it is possible with the current CancelBlockOrder function to delete a range of block orders

QUESTION: Can I use several Clients with one and the same CSR file?

A1: Yes this is possible.

QUESTION: Can we share the ETS API user amongst different applications (concurrent logins)?

A1: Yes it is possible but not recommended.

QUESTION: Can a VPN tunnel be used to connect to the ETS API Server?

A1: No, VPN cannot be used.

QUESTION: What test data shall we expect to use in test environment? Is it an exact copy of the live/production data?

A1: We don't have any expectations but in order to be tested correctly the data that should be used should look like the one you use in production.

QUESTION: What is the maximum number of characters for an API User Password?

A1: Not more than 25.

b. Technical questions

QUESTION: Why am I not able to connect to the API Server?

A1: Verify if the firewall allows network traffic on the port used.

Otherwise check the IP-address (URL) and the port used to connect to the API server.

A2: Verify if the certificate used is correct

QUESTION: How is the DST handled by EPEX: will the time be delivered in UTC? Which meaning do the Period Ids of block orders have?

A1: Information is available in the RPC (remote procedure call):

There are different possibilities to handle the selection of the correct date(s):

- Delivery day(s): delivery date (or range of dates) with format = YYYY-MM-DD. This is used only once by request. DST 23/25 are taken into account by the period tag.
- DateTime range, with format = 2016-07-01T22:00:00 (deprecated methods). This is used as many times as there are periods concerned by the request (normally 24 or 23/25 with DST).

PeriodID tag should not be used (do not mix it with period tag)

Description: The time range indicating the hourly interval in (GMT)

Several DST sessions will be planned by Market operator

A2: as of API 1.9, the use of tags related to date and time is as following:

Concerned methods:

- EnterBlockOrder / EnterBlockOrderBatch
 - ➔ Choice between a date (WSDL 1.9 or more) or a datetime (WSDL 1.9 or earlier)
 - ➔ Choice between a period ID (WSDL 1.9 or more) or a time interval (WSDL 1.9 or earlier)
- RetrieveBlockOrders / RetrieveSmartBlockOrders / CancelBlockOrder
 - ➔ Choice between a date (WSDL 1.9 or more), a range of dates (WSDL 1.9 or more) or a time interval (WSDL 1.9 or earlier)
- RetrieveMarketResultsFor
 - ➔ Choice between a date (WSDL 1.9 or more) or a datetime (WSDL 1.9 or earlier)

Be aware: for compatibility reasons, some tags (indicated for WSDL 1.9 or earlier) are still present, but not given in this document, because they are deprecated, and we do not expect you to use them.

QUESTION: What is the current URL for ETS 2.10.?

A1: <https://ets-demo.api.epexspot.com>

QUESTION: What is the current path to the WSDL for ETS 2.10.?

A1: <https://ets-demo.api.epexspot.com/OpenAccess/OpenAccess?wsdl>

QUESTION: What is the current Server port for ETS 2.10.?

A1: 443

QUESTION: What is the new URL for ETS 3.1.?

A1: <https://ets-simu2.api.epexspot.com:4444/OpenAccess/3.0>

QUESTION: What is the new path to the WSDL file for ETS 3.1.?

A1: <https://ets-simu2.api.epexspot.com:4444/OpenAccess/3.0?wsdl>

QUESTION: What is the new Server port for ETS 3.1.?

A1: 4444

QUESTION: How can we retrieve the WSDL file from the web browser if we receive a "Secure connection error" (Firefox)

A1: The manner to resolve this issue is to import the signed certificate provided to you to your Web Browser (Firefox in our case below).

- 1) Firefox preference -> Tools -> Options
- 2) Click on "Advanced" button
- 3) Select the "Encryption" tab
- 4) Check the checkbox "Use TLS v1.2" (if not already checked)
- 5) Click on "View Certificates" button
- 6) Click on "Import" button
- 7) Navigate to the CA certificate (.p12) and import it

QUESTION: How can we verify that our CSR is valid?

A1: Following software can be used: <http://certlogik.com/decoder/>

QUESTION: How can we manage HTTPS connections?

A:

- 1) Be sure to obtain your certificate from EPEXSPOT
- 2) Set the security protocol to TLSv1.2

Example (C# code)

```
// Set security protocol to TLS v1.2
System.Net.ServicePointManager.SecurityProtocol =
System.Net.SecurityProtocolType.Tls12;
```

- 3) TLSv1.2 Configure your connection's security mode

Example (C# code)

```
// Set security mode
((BasicHttpBinding)oaClient.Endpoint.Binding).Security.Mode =
BasicHttpSecurityMode.Transport;
((BasicHttpBinding)oaClient.Endpoint.Binding).Security.Transport.ClientCred
entialType = HttpClientCredentialType.Certificate;

// PKCS12, contains public and private keys
string clientCertFile = "/path/to/the/p12/certificate";

// Needed when using PKCS12 file to allow certificate export (C# related)
X509KeyStorageFlags flags = X509KeyStorageFlags.Exportable;
// Set client certificate with password
oaClient.ClientCredentials.ClientCertificate.Certificate = new
System.Security.Cryptography.X509Certificates.X509Certificate2(clientCertFi
le, "", flags);
```

QUESTION: How are the time periods for Summer Days / Winter Days / DST?

A1: The following format is indicated for deprecated methods:

If the tab PERIODTIMEINTERVAL is used, the list of values is different according if we are in summer, winter, DST23 or DST25:

Summer day: from 22h (day 1) to 22h (day 2)

Winter day: from 23h (day 1) to 23h (day 2)

DST short: from 23h (day 1) to 22h (day 2)

DST long: from 22h (day 1) to 23h (day 2)

Each date has the format YYYY_MM_DDTHH:MI:SS

A2: the following format is given for new methods:

If the tab PERIOD is used, the period ID is given with a number from 1 to X.

X = 24 for a normal day with 24 periods, or 23 for DST 23 or 25 for DST 25

X = 96 for a normal day with 96 periods (15min auction), or 92 for DST 23 or 100 for DST 25

...

In this case, the date has always same format (YYYY-MM-DD), and only the period value will indicated if there is 23, 24 or 25 hours

QUESTION: Are really all tags in the WSDL, indicated as optional, optional?

A1: In the WSDL documentation, there are some errors regarding the tags indicated as optional. Few tags are indicated as optional even when they are mandatory:

Method **CancelBlockOrder**/tag timeIntervals

→ tag is deprecated, and can be replaced by tags **deliveryDay** or **deliveryDays**

Method **EnterHourlyOrder**/tag periodTimeInterval

→ method is deprecated, so no change is expected

Method **RetrieveBlockOrder**/tag timeInterval

→ tag is deprecated, and can be replaced by tags **deliveryDay** or **deliveryDays**

Method **RetrieveSmartBlockOrder**/tag timeInterval

→ tag is deprecated, and can be replaced by tags **deliveryDay** or **deliveryDays**

QUESTION: What is the recommended duration of time-out?

A1: The duration recommended by our system provider is 10 seconds.

QUESTION: How can we create .p12 certificate?

A: Please see in “ETS API Certificates” document

QUESTION: How many ETS API environments are available on EPEX SPOT side?

A: 2 environments are available: 1 test environment and 1 production environment.

c. Procedural questions

QUESTION: How do I obtain my login/password for API?

A1: Please contact EPEX SPOT Market Operations.

QUESTION: My client certificate has been generated, but I’m still not able to connect to the API server.

A1: The client certificate should be signed by EPEX SPOT. Please contact EPEX SPOT Market Operation to launch the signature process.

QUESTION: How can I access the Public Message Interface documentation?

A1: Please contact EPEX SPOT Market Operations.

QUESTION: Can we have an IT interlocutor with whom our IT Team can directly communicate?

A1: Please contact EPEX SPOT Market Operation, they are the first level of support for all API topics; however in case of particular technical difficulties, you will be in direct contact with IT staff.

QUESTION: Is there already a Test Service from EPEX and corresponding Test Users?

A1: Yes, a test service already exists but please contact EPEX SPOT Market Operation, they are first level of support for all API topics; however in case of particular difficulties, you will be in direct contact with appropriate person.

QUESTION: In case we encounter technical issues or have technical questions, shall we email your team or can we have a direct IT contact

A1: You should contact EPEX market operations at powerspot@epexspot.com

QUESTION: How many CSR are necessary?

A1: Two, one for Test and one for Production environment once the conformance tests were successful.