X-pand into the Future

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High priority

Eurex Exchange's new trading architecture: Start of simulation

Related Eurex Circulars: 021/12, 090/12, 144/12, 177/12

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Content may be most important for:	**Attachments:**
Ü All departments	none

Summary:

Eurex Exchange will introduce its new trading architecture on 3 December 2012. To prepare for the production launch, Eurex Exchange will offer access to a simulation environment prior to the production launch. The first phase – regular simulation – will run on a dedicated environment and is scheduled to commence on Thursday, **18 October 2012**.

The Eurex ETI gateways will be available from 15 October 2012 for a connection test prior to the simulation start. Please note that the Eurex ETI gateways will still be undergoing some maintenance and will therefore be sporadically unavailable. Visit our implementation news section on the Eurex website for the availability of the Eurex ETI gateways.

To support participants preparing for the regular simulation phase, Eurex provides the latest updates on the new trading architecture and the simulation environment, respectively. This includes a set of updated documents and new screencasts. In addition and for this purpose, Eurex has established a dedicated news section for the latest news on the regular simulation and the implementation of the new trading architecture in general. All information sources will be available on the Eurex website www.eurexchange.com under the link:

Technology > New trading architecture

The next simulation phase - production simulation - is scheduled to commence on **12 November 2012**. This simulation phase will run on the new production environment of Eurex Exchange's new trading architecture.

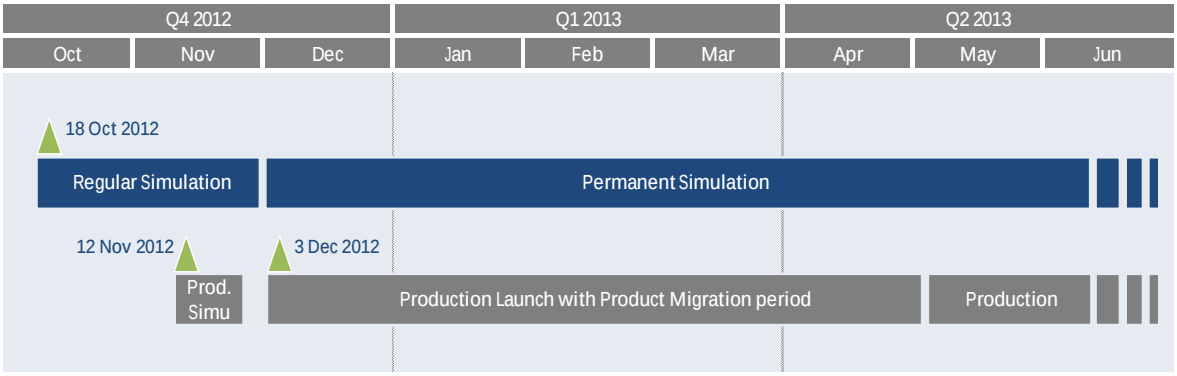
Please note that all trader accounts set up in the current Eurex® system as of **31 October 2012** will be migrated to the new production environment. All participants are asked to use the production simulation phase to verify and if necessary modify the migrated user accounts. More details on the production simulation phase will be provided at a later date.

Eurex Exchange's new trading architecture: Start of simulation

1 Simulation overview

Eurex Exchange will introduce its new trading architecture on 3 December 2012. To support trading participants preparing for the production launch, we will offer access to a simulation environment prior to the production launch. The overall simulation for the new trading architecture is separated into two phases:

- Regular simulation, scheduled to start on 18 October 2012 with the subsequent permanent simulation from December 2012. Both phases will use the dedicated simulation environment.
- Production simulation, scheduled to start on 12 November 2012 allowing early access to the new production environment of the new trading architecture.



2 Regular simulation

The first simulation phase, regular simulation is scheduled to commence on **Thursday, 18 October 2012**.

Eurex will allow connections to the **Eurex ETI gateways** (connection gateways and trading gateways) already prior to the simulation start, but no earlier than **15 October 2012**. Please note that the Eurex ETI gateways will still be undergoing some maintenance during this period of time and might be sporadically unavailable. For this reason we will inform participants about the availability of the gateways via the **implementation news** section on the Eurex website (please refer to chapter 4.2 for more details on the implementation news).

Please note that a user login via the Eurex ETI will not be possible prior to 18 October 2012.

2.1 Specifics of the regular simulation

The dedicated simulation environment of Eurex Exchange's new trading architecture is interconnected with the simulation environment of the current Eurex® system, allowing participants to test the whole trading and clearing process chain.

The following specifics apply to the integrated environment:

- As the new trading architecture and the current Eurex® system are interconnected, trades generated in the new trading architecture will be processed by the current Eurex® system for clearing and entitlement changes on member level affect users on the new trading architecture. Please note that during the first three weeks of the regular simulation (until 9 November 2012) orders matched in the simulation environment of the new trading architecture on batch days after 14:00 CET will not be transported to the simulation environment of the current Eurex® system prior to the next day.
- Trader accounts set up on the simulation environment of the current Eurex® system prior to July 2012 are also available in the simulation environment of the new trading environment. The entitlements of the trader accounts migrated to new user accounts have been migrated according to the rules as described in the "Participant and User Maintenance Manual".

- 70 selected products from a broad range of derivatives will be active for trading exclusively on the new trading architecture. These products will be deactivated for trading in the simulation environment of the current Eurex® system, starting on 11 October 2012. Please note that persistent orders (e.g. GTC, GTD, etc.) of the affected products that exist in the current Eurex® simulation system on this day will not be migrated to the new trading architecture and will be deleted.
- A number of additional products will be active for trading exclusively on the current Eurex® system. Please note that on special focus days later in the regular simulation additional products will be moved from the current Eurex® system to the new trading architecture.
- The regular simulation of the new trading architecture supports all new interfaces:
  - The new GUI solution: Eurex Trader GUI and Eurex Admin GUI
  - Transaction interfaces: Eurex ETI and Eurex FIX Gateway
  - Market and reference data interfaces: Eurex EMDI, Eurex MDI, Eurex RDI and the Eurex Extended Market Data Service
  - Common Report Engine (e.g. to retrieve the Reference Data File)
- Existing Eurex reports and new reports introduced together with the new trading architecture are available for participants to test the processing of reports with the Common Report Engine.

For more details on the regular simulation phase of the new trading architecture including specifics on the planned focus days and an update of the simulation calendar for the new trading calendar, please refer to the "Participant Simulation Guide", available on the Eurex website (for the exact path please see chapter 4.1). Please note that in addition an updated version of the Eurex Release 14.0 simulation calendar will be published.

2.2 Limitations of the regular simulation

Some limitations of the regular simulation phase exist, including for instance the EurexOTC Trade Entry functionality via the new Eurex Trader GUI, which will not be supported during the regular simulation phase.

More details on the limitations of the regular simulation phase for the new trading architecture are described in the document "Known Limitations for Simulation", available on the Eurex website (for the exact path please see chapter 4.1).

2.3 Preparation and first day activities

Access to the new interfaces of the regular simulation of the new trading architecture will be enabled for all participants, multi-member service providers and independent software vendors. A number of preparatory activities are required by all participants of the regular simulation:

- The participant network must be configured for access to the new trading architecture.
- Access to both the public and participant-specific area of the Common Report Engine must be prepared in order to receive important files and reports. Please note that access via the Internet requires an SSH public key to be generated and uploaded in the Member Section of the Eurex website.
- Access to the new GUI solution must be established, for instance to change user passwords. Please note that access via the Internet requires an SSH public key to be generated and uploaded in the Member Section of the Eurex website.
- As the password rules in the new trading architecture are different from the current Eurex® system, the password of each migrated user account must be changed on the first logon to the new trading architecture. For the password change, a login with the new Eurex GUI solution is necessary. Please note that this rule applies to all user accounts, independent of the interface the user account will be used with (e.g. Eurex Trader GUI or Eurex ETI).

- As the entitlement of each user account has been adapted to the new entitlement concept during the migration process, all new user accounts must be verified by the participants.

3 Production simulation

The production simulation is scheduled to commence on **12 November 2012**. This simulation phase will run on the new production environment of Eurex Exchange's new trading architecture and will therefore allow access to the new production environment prior to the production launch date.

User accounts to be used for the production simulation will be those that will be used in production in the future as well. For this reason, the production trader accounts of the current Eurex® system will be migrated to the production environment of the new trading architecture, as performed in the simulation environment. The migration process will follow the migration rules as outlined in the latest update of the "Participant and User Maintenance Manual".

Please note that all trader accounts in the current Eurex® production system will be migrated prior to the start of the production simulation. All trader accounts set up in the current Eurex® production system on the cut-off date, **31 October 2012** (end of day), will be included in the initial migration for the production simulation. Newly created trader accounts and entitlement modifications (RALs) to existing trader accounts after the cut-off date will not be migrated to the production environment of the new trading architecture.

After the migration has taken place, the user set-up and maintenance process will be separate for the current Eurex® system and the new trading architecture. The set-up of new user accounts and any modification of entitlements for user accounts in the new trading architecture must be conducted by the participants themselves, using eXAS and the new Eurex Admin GUI. The production environment of the new trading architecture will be available in the production simulation phase, scheduled to start on 12 November 2012.

Participants can use the existing Eurex reports TT110, TT115, TT120 and TT125 to identify trader account changes made in the current Eurex® production system after the cut-off day and to make adjustments to the migrated user accounts in the new trading architecture respectively.

More details on the production simulation phase will be provided at a later date.

4 Documents and additional information sources

Eurex is committed to providing participants with information updates throughout the implementation process. We will continue to provide documentation, screencasts and training courses for participants and will in addition establish a dedicated news section on the Eurex website for implementation of the new trading architecture (see chapter 4.2).

4.1 New and updated documents

New documents on the new trading architecture and updates of existing documents will be published between 10 and 12 October 2012. All documents mentioned in this chapter are available on the Eurex website www.eurexchange.com under the following link:

Technology > New trading architecture > System Documentation

Updated Documents	Description	Version
Participant Simulation Guide	• Updates the existing manual. • Includes major modifications, such as the details on planned focus days and the respectively updated simulation calendar.	V 1.1
Participant and User Maintenance Manual	• Updates the existing manual. • Includes various minor corrections and some modifications in the data migration appendix for the regular simulation.	V 1.0.3
Functional Reference	• Updates the existing manual. • Includes various minor corrections.	V 1.0.2
Eurex Trader GUI & Eurex Admin GUI – Manual, Simulation	• Updates the existing manual. • Includes various minor corrections.	V 1.0.1
Eurex Enhanced Trading Interface – Manual, Simulation	• Updates the existing manual. • Includes various minor corrections and modifications in order to be compliant with the regular simulation environment.	V 1.1.2
Eurex Enhanced Trading Interface – XML Representation, Simulation	• Provides an update of the XML representation, according to the latest documentation.	V 1.1.2
Eurex Enhanced Trading Interface – C-Header-Files, Simulation	• Provides an update of the C-header files, according to the latest documentation.	V 1.1.2
Eurex FIX Gateway FIX 4.2 – Manual, Simulation	• Updates the existing manual. • Includes various minor corrections and modifications in order to be compliant with the regular simulation environment.	V 1.0.2
Eurex FIX Gateway FIX 4.4 – Manual, Simulation	• Updates the existing manual. • Includes various minor corrections and modifications in order to be compliant with the regular simulation environment.	V 1.0.2
Eurex FIX Gateway – FPL Repository for FIX 4.2 and 4.4, Simulation	• Provides an update of the FPL repository, according to the latest documentation.	V 1.0.2
Eurex FIX Gateway – Fiximate FIX 4.2, Simulation	• Provides an update of the browser-based representation of the repository for the Eurex FIX Gateway version FIX 4.2, according to the latest documentation	V 1.0.2
Eurex FIX Gateway – Fiximate FIX 4.4, Simulation	• Provides an update of the browser-based representation of the repository for the Eurex FIX Gateway version FIX 4.4, according to the latest documentation	V 1.0.2
Eurex Market and Reference Data Interfaces – Manual, Simulation	• Updates the existing manual. • Includes various minor corrections and modifications in order to be compliant with the regular simulation environment.	V 1.1.2

Updated Documents	Description	Version
Eurex Market and Reference Data Interfaces – XML FAST Templates, Simulation	• Provides an update of the XML FAST template files for the Eurex market and reference data interfaces (Eurex EMDI, Eurex MDI and Eurex RDI), according to the latest documentation.	V 1.1.2
Eurex Reference Data File - FIXML Schema Files, Simulation	• Provides an update of the FIXML schema files for Eurex Reference Data File, according to the latest documentation.	V 1.1.2
Eurex Extended Market Data Service – Manual	• Updates the existing manual. • Includes various minor corrections and the new replay function that delivers public on-exchange and EurexOTC trade data of the day, as well as Open Interest data and Settlement prices. The replay will be delivered multiple times a day.	V 1.1
Eurex Extended Market Data Service – XML FAST Templates	• The new XML FAST template files for the new Eurex Extended Market Data Service, according to the latest documentation.	V 1.1

Network Access to the New Trading Architecture	• Updates the existing manual.
	• Includes various minor corrections and improvements, and contains modifications in order to be compliant with the regular simulation environment:
	  • IP addresses for the Eurex GUI solution, the Eurex FIX Gateways and the Eurex ETI gateways added.
	  • Prefixes consolidated and added as an appendix.
	  • IP address changes related to the Eurex Clearing interfaces incorporated.
		V 1.0.2

Common Report Engine User Guide	• Updates the existing manual. • Includes the introduction of the new public area with, modifications to the file naming conventions and additional minor corrections.	V 5.1.1
Eurex XML Reports - Reference Manual	• Updates the existing manual. • Includes various modifications and corrections for Eurex Release 14.0 and Eurex Exchange's new trading architecture. Please see the additionally available difference file to obtain the introduced report changes. PLEASE NOTE: This document was already updated on 24 September 2012.	V 1.0.1
Eurex XML Reports – XML Schema Files	• Provides an update of the XML schema files for the XML reports, according to the latest documentation. PLEASE NOTE: This file was already updated on 24 September 2012.	V 1.0.1

New Document	Description	Version
Known Limitations for Simulation	• New document providing a list of known limitations for the regular simulation phase. PLEASE NOTE: This document will not be available prior to 16 October 2012.	1.0

4.2 News

Together with the start of the regular simulation of the new trading architecture, we will launch a news section specifically relating to the implementation of the new trading architecture. The news section featuring RSS technology will inform participants about important events related to the simulation environment and later on the production launch.

The news section will be available on the Eurex website www.eurexchange.com under the following link:

Technology > New trading architecture > Implementation News

4.3 Screencasts

Eurex has created a set of on-demand screencasts providing information of specific topics related to the new trading architecture. New screencasts will be added periodically. All screencasts are available on the Eurex website www.eurexchange.com under the following link:

Technology > New trading architecture > Education

4.4 Training courses

Eurex will continue to offer technical training courses on the new interfaces and specific training courses to prepare for the simulation of the new trading architecture in London and Frankfurt.

The training courses are offered free of charge and can be booked individually on the website of the Capital Markets Academy www.deutsche-boerse.com/cma under the following link:

Seminars > Eurex Exchange's new trading architecture

5 Contacts

For any questions you may have on the new documents or the new trading architecture in general, please contact the Markets Services team at tel. +49-69-211-1 31 18 or e-mail technology.roadmap@eurexchange.com.

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