X-pand into the Future

e u r e x *circular 156/12*

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⚠ **High priority**

Eurex Exchange's new Trading Architecture: Information Update

Related Eurex Circulars: 021/12, 090/12

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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 December 3, 2012. Prior to the production launch, the first simulation phase will commence from September 3, 2012.

To allow trading participants preparing for the specific simulation phases and the production introduction of the new trading architecture, a set of new and updated documents is provided, covering the following areas:

- Functional aspects of the new trading architecture and overview documents.
- Specifications describing the new interface landscape and supporting material, such as XML templates and sample data.
- Technical aspects, such as network access to the new trading architecture.
- Implementation documents related to the specific simulation phases including migration planning.

The documents have been made available on the Eurex website www.eurexchange.com. Some additional documents will be provided in calendar week 32. All documents are published on the website under the link:

Technology > System Documentation > New Trading Architecture

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Eurex Exchange's new Trading Architecture: Information Update

1 Introduction

Eurex Exchange will introduce its new trading architecture on December 3, 2012. Prior to the production launch, the first simulation phase will be available from September 3, 2012.

To allow trading participants preparing for the specific simulation phases and the production introduction of the new trading architecture, a set of new and updated documents on the new trading architecture is provided. These documents reflect changes since the last major document update cycle from April/May 2012.

Some concepts have evolved over time and a few topics have been substantiated during recent months. Important changes and clarifications, which are reflected in the new and modified documents, include:

- A new interface, the "Extended Marked Data Service" using a similar message structure to the market data interfaces Eurex EMDI and Eurex MDI, has been introduced providing trade prices from transactions entered via EurexOTC Trade Entry services, Intraday Settlement prices and Open Interest figures.
- The Eurex ETI interface introduces new short order message layouts in addition to other minor conceptual modifications, such as an extension to the on-behalf modification concepts.
- New processes for the setup and maintenance of users supported by the new trading architecture have been developed and concepts such as the use of numeric IDs in interfaces for users and business units are described in more detail.
- Some functional concepts have evolved further, such as closing auctions during the day and support for the maintenance of Market Maker protection in the new GUI solution.
- The simulation phases, activities and the necessary preparation are now described in more detail to allow trading participants time to prepare.

All changes have been incorporated into the documents, but also additional material has been made available to support trading participants in the preparation for the simulation and the production launch of the new trading architecture. Such material includes on-demand screencasts and training sessions.

2 Documents and supporting material

The following new and modified documents on Eurex Exchange's new trading architecture have been published on the Eurex website www.eurexchange.com. The documents are available on the website under the link:

Technology > System Documentation > New Trading Architecture

Please note that a few of the documents listed below will be published in calendar week 32. These documents are marked in the lists respectively.

2.1 Overview and functional documents

Document	Description	Published
Functional and Interface Overview	• Provides an update of the existing document. • Incorporates functional and technical changes on a high level.	CW 29
Functional Reference	• New document providing a detailed insight into the functional concepts of the new trading architecture.	CW 29

Document	Description	Published
Participant and User Maintenance Manual	• A new document assisting service administrators maintaining participant and user-related data in the new trading architecture.	CW 29

2.2 Documents and material on trading interfaces

Document	Description	Published

Eurex Enhanced Trading Interface – Manual, Simulation	• Replaces the existing preliminary manual.
	• Includes the latest major conceptual modifications:
	  • Eurex ETI supports order message layouts with reduced message content for single leg order types. The reduced payload of these messages, which is similar to quote messages, will improve latency.
	  • Modification of standard orders possible by other session.
	  • Priority Timestamp and Entry Timestamp added for Standard Orders.
	  • Risk control messages added.
		CW 29

Eurex Enhanced Trading Interface – XML Representation, Simulation	• Provides an update of the XML representation, according to the latest documentation.	CW 29
Eurex Enhanced Trading Interface – C-Header-Files, Simulation	• Provides an update of the C-header files, according to the latest documentation.	CW 29
Eurex FIX Gateway FIX 4.2 – Manual, Simulation	• A new document providing an introduction to the Eurex FIX Gateway, FIX version 4.2 for the new trading architecture with a detailed description of the concepts and messages used by the interface.	CW 29
Eurex FIX Gateway FIX 4.4 – Manual, Simulation	• A new document providing an introduction to the Eurex FIX Gateway, FIX version 4.4 for the new trading architecture with a detailed description of the concepts and messages used by the interface.	CW 29
Eurex FIX Gateway – FPL Repository for FIX 4.2 and 4.4, Simulation	• The new FPL (FIX Protocol Language) repository containing a XML representation of the Eurex FIX Gateway version 4.2 and 4.4 for the new trading architecture.	CW 29
Eurex FIX Gateway – Fiximate FIX 4.2, Simulation	• A new package providing a browser-based representation of the repository for the Eurex FIX Gateway version FIX 4.2 of the new trading architecture with navigation capabilities.	CW 29
Eurex FIX Gateway – Fiximate FIX 4.4, Simulation	• A new package providing a browser-based representation of the repository for the Eurex FIX Gateway version FIX 4.4 of the new trading architecture with navigation capabilities.	CW 29

2.3 Documents and material for market and reference data interfaces

Document	Description	Published

Eurex Market and Reference Data Interfaces – Manual, Simulation	• Replaces the existing preliminary manual.
	• In addition to minor modifications of existing messages, it includes two conceptual modifications:
	  • The partition ID is now available in the packet header.
	  • Separate packet headers have been introduced for Eurex EMDI, Eurex MDI and Eurex RDI.
	• In addition, the document describes the message handling during auctions in a separate chapter.
		CW 29

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.	CW 29
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.	CW 29

Eurex Extended Market Data Service – Manual, Preliminary	• A new document providing an introduction to the new Eurex Extended Market Data Service.
	• The new Eurex Extended Market Data Service provides participants with the following data:
	  • Single and multi-leg prices for transactions entered via EurexOTC Trade Entry services
	  • Intraday Settlement prices
	  • Open Interest figures
	• Please note: An enhanced version of the Extended Market Data Service, scheduled for **November 2012**, will provide a 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.
		CW 29

Eurex Extended Market Data Service – XML FAST Templates, Preliminary	• The new XML FAST template files for the new Eurex Extended Market Data Service, according to the latest documentation.	CW 29

2.4 Documents on the new GUI solution

Document	Description	Published
Eurex Trader GUI & Eurex Admin GUI – Manual, Simulation	• A new document providing a detailed description of the new Eurex GUI solutions, the Eurex Trader GUI and Eurex Admin GUI.	CW 29
Eurex Trader GUI & Eurex Admin GUI – Installation Manual, Simulation	• A new document providing an installation guide for the new Eurex GUI solutions: Eurex Trader GUI and Eurex Admin GUI.	CW 32

Please note: The “Eurex Trader GUI & Eurex Admin GUI – Installation Manual” will be published on the website in calendar week 32.

2.5 Further documents and material

Document	Description	Published
Eurex XML Report Reference – Manual, Simulation	• An update of the existing XML Report Reference Manual, suitable for the simulation phase of the new trading architecture. • Please note: The report changes as described in the document will be active in the Eurex production from **November5, 2012**, regardless of the originating system: Eurex Exchange's new trading architecture or the current Eurex® system.	CW 29
Eurex XML Reports – XML Schema Files, Simulation	• This package contains an update of the XML schema files for the Eurex XML reports, according to the latest version of the Eurex XML Report Reference Manual.	CW 29
Network Access to the New Trading Architecture	• A new document providing details on the network access options for the new interfaces of Eurex Exchange and Eurex Clearing. It includes detailed technical background information, such as router equipment information and port numbers for the configuration of firewalls.	CW 29
Participant Simulation Guide	• A new document describing the necessary activities for participants to prepare and use the simulation phases offered for the new trading architecture.	CW 29
User Manual – Request and Configuration	• An update of the existing document providing help for the use of the tools available in the Member Section of Deutsche Börse Group. • The updated version also contains descriptions of the modified processes for the new trading architecture, such as the session ordering process for Eurex ETI sessions via the Member Section.	CW 30 (in Member Section)

Please note: The "User Manual – Request and Configuration" will be published in the Member Section of the Eurex website in calendar week 30.

3 Additional sources of information

In addition to the aforementioned documents, Eurex provides more information sources participants can use in order to prepare for the new trading architecture.

3.1 Sample data

Sample data packages will be provided, which contain network captures from the interfaces of the new trading architecture. Each sample data package contains captures of the respective interfaces for a specific scenario, such as requests and responses for a simple order.

The packages covering the different scenarios will be created in a stepwise approach, starting in calendar week 30. All sample data packages will be published on the Eurex website www.eurexchange.com under the following link:

Technology > System Documentation > New Trading Architecture

Please note: The sample data files will be published on the Eurex website no earlier than calendar week 32. In the case you require the first sample files prior to publication date, please contact your Technical Account Manager.

3.2 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, which will be available on the Eurex website www.eurexchange.com under the following link:

Technology > New Trading Architecture > Education

3.3 Training courses

Eurex offers technical training courses on the new interfaces and specific training courses to prepare for the first simulation phase of the new trading architecture in various cities.

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

4 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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