X-pand into the Future

# e u r e x *circular 077/02*

**Date:** Frankfurt, August 23, 2002
**Recipients:** All Eurex members and vendors
**Authorized by:** Jürg Spillmann

⚠ **Action Required** ⚠ **High Priority**

## Simulation Guide and Sizing Guidelines for Eurex Release 6.0

**Related Eurex Circulars:** 035/02, 071/02

**Contact:** Functional Member Readiness: Tel. +49 (0)69-21 01-17 00

| **Content may be most important for:** | **Attachments:** |
|---|---|
| ➲ All Departments | Eurex Release 6.0 Simulation Guide |

The Guide to Eurex 6.0 Release Simulation covering the period September 9 to October 18, 2002 is attached.

The Deutsche Börse Common Front End Sizing Guidelines applicable for Eurex Release 6.0 have now been published on our web-site “www.eurexchange.com” at the location “info for members > manuals > release 6.0 > technical manuals”.

Please take particular note of the new recommended sizings in section 3.5.

Following statistical measurements of market activity on the Eurex production system, we now recommend sufficient capacity to handle an increased broadcast rate of 450 broadcast messages per second (formerly 250). In general this has led to increased CPU capacity recommendations for the architecture processes on the MISS (3.5.1.1) and Workstation (3.5.1.2). Physical memory and disk space requirements for both Windows and SUN Solaris MISS platforms are unchanged from the Release 5.0 values. Please note the mandatory patch for Windows 2000 (section 4.1.1.3).

For the @X-ceed trading application (3.5.2.2), the assumption has been made that 35% of the broadcast traffic is visualized. In total, this leads to a 58% increase in workstation display traffic over Release 5.0 assumptions. However, the performance improvements made to the GUI applications have counteracted this increased requirement, and for the Windows application, the requirements are slightly less than the recommendations for Release 5.0. The CPU requirements for the SUN Solaris implementation of the @X-ceed application have been cut by over 50%.

CPU guidelines for the @X-tract Clearing application (3.5.2.3) are unchanged from the Release 5.0 values, and physical memory and disk space requirements are also unchanged for both @X-ceed and @X-tract Release 6.0 applications.

LAN capacity requirements (section 3.5.3) are unchanged, and CPU and physical memory recommendations for @Eurex workstations (3.5.4) are the same as for the Windows 2000 workstation running the @X-ceed or @X-tract application.

A new section 3.5.5 provides the sizing requirements for the Intraday Risk Information Services standalone workstation.

The sizing examples for Eurex-only (section 3.8.1) and for Eurex/Xetra installations (3.8.4) have been revised accordingly.

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X-pand into the Future

# Eurex Release 6.0 Simulation Guide

September 9 - October 18, 2002

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# 1. Introduction

This document is intended to give guidelines on the Eurex Release 6.0 Simulation and EEX Derivatives Market Simulation to be performed between September 9 and October 18, 2002 in the simulation environment of the Eurex System.

It is directed to all Eurex and EEX Members' Central Coordinators, System Administrators, Traders and back office staff who will be involved in the simulation, and advises members on preparation, test and reporting activities.

With Eurex 6.0 some major functional and technical changes and improvements will be introduced. In particular, two changes regarding the supported Operating Systems will require preparatory actions on the member/vendor side to assure Member Readiness for the start of Eurex 6.0 simulation and production:

1. The support of Windows NT 4.0, SP 5 will cease and members/vendors have to migrate to Windows 2000, SP 2. Alternatively, for Workstations only, members can migrate to Windows XP.
2. Members with Sun installations have to upgrade from "Sun Solaris 8 Hardware Revision 10/00 or higher" to "Sun Solaris 8 Hardware Revision 02/02 or higher" to be able to run the Java Runtime Environment 1.4.0_01 which is part of Eurex 6.0.

# 2. Objectives

Within the Eurex Release 6.0 Rollout planning, Eurex Release 6.0 simulation has the following objectives:

- Ensure a smooth transition from Eurex Release 5.0/5.1 to Eurex Release 6.0 for all members/vendors and the exchange
- Support member's Operating System migration efforts to ensure a timely and successful transition
- Encourage members to become familiar with the new release functionality
- Support and track 3rd party software readiness

# 3. Registration and Participation

All Members are asked to register for Simulation by August 30, 2002, using the Registration Fax Reply attached, and to inform Functional Member Readiness of the hardware platform and software they will use during Eurex Release 6.0 simulation and production.

The Eurex Functional Member Readiness Team (FMR) will track members' readiness, including third-party front-office and back-office systems and operating system migration. For this purpose, a Simulation Status Fax Reply, which Members are asked to fax back at regular intervals, is attached to this guide.

Participation in the Eurex Release 6.0 simulation is strongly recommended for all Eurex and European Energy Exchange (EEX) Members.

Besides the migration to the new supported Operating Systems, the members will have to install the Eurex Release 6.0 simulation kit and the new GATE 3.1 kit. In case additional simulation kits are distributed during simulation, all members and vendors would have to install these kits.

Apart from the events included in the simulation calendar and the checklist on new functionality, there will be no special guidance for participants. This will allow Members to simulate freely and concentrate on their individual interests using the full range of Eurex and EEX products available in the simulation environment (see Section 11).

The days marked as “DNTP Focus Days” in the simulation calendar are intended to promote liquidity in the Delta Neutral Trading Products (DNTP) in order to facilitate testing of this new product type. For test purposes, two DNTPs (DDAX and DGBL) will be made available in Eurex Release 6.0 simulation.

# 4. New Functionality

The following new functionalities are introduced with Eurex Release 6.0:

- A new broadcast split concept allows member to exclude product-specific areas of the public broadcast stream which are of no interest
- Delta Neutral Trading Products
- Interest on cash margin deposit **(not simulated)**
- Partial Position Transfer with Cash Amount
- Removal of Wertpapierkennummer (WKN) from the user interface
- Change of Performance Measurement for Permanent Quotation in Options
- Volatility Interrupt for price/time-matched Futures
- String Search Facility in Eurex Front-end GUIs

**The Eurex Release 6.0 Final Functional and Technical Release Notes contain more detailed information.**

# 5. Simulation Preparation

### Simulation Software Kit

The Simulation Software Kit files will be distributed to Members after close of trading on August 30, 2002. Please keep your installations ready for receipt and check that you have received all files.

For each system platform, a Eurex 6.0 kit and GATE 3.1 kit will be distributed.

Simulation kits for the Sun Solaris platforms will also include a software kit for Windows.

From September 02, 2002 the files will be available for download from the Eurex web-site www.eurexchange.com > info for members > Eurex Software Kits

### Disk Space Requirements

The following table shows the necessary disk space for the installation kits:

| Platform | Disk Space Required |
|---|---|
| Sun Solaris (MISS) | 100 MB + 50 MB |
| Windows 2000/XP | 50 MB |

**Members' Positions**

The simulation will start based on Members' positions as at the end of the Eurex Release 5.1 permanent simulation period. At the end of the first simulation week when the new set-up is proven, all Members' positions will be reset. This procedure complies with the request of Eurex Members.

**Trader Product Assignment**

All products set up in Simulation will be assigned to the Member.

Trader/product assignments are the responsibility of the Member, and Members should make sure to set up the assignments (including the DNTP products) in order to take full part in the focus days.

# 6. Simulation Calendar

The release simulation for Eurex Release 6.0 will be performed from September 9th until October 18, 2002 according to the calendar below. All times are CET.

**Note:** Capital adjustments are planned and will be announced via Market Supervision Messages.

The table below shows the calendar for Eurex Release 6.0 simulation.

Periods when the simulation environment is not open should be used for necessary off-line activities (report verification, adaptation of processes, fixing of errors).

| *Date* | *System Date* | *Trading Hours*[1] | *Remarks* | *Action* |
|---|---|---|---|---|
| Mon 09.09.02 | 09.09.02 | 8:30 – 16:30 | *Batch* | |
| Tue 10.09.02 | | | *Batch review* | |
| Wed 11.09.02 | 11.09.02 | 8:30 – 16:30 | **Volatility Interrupts Focus Day**, *Batch,* **POSITION RESET,** | |
| Thu 12.09.02 | | | *Batch review* | |
| Fri 13.09.02 | 16.09.02 | 8:30 – 00:00 | **OPENING WITH POSITIONS RESET** | Return Status Fax |
| Sat 14.09.02 | 16.09.02 | 00:00 – 24:00 | | |
| Sun 15.09.02 | 16.09.02 | 00:00 – 24:00 | | |
| | | | | |
| Mon 16.09.02 | 16.09.02 | 00:00 –16:30 | Last Trading Day FINT/FBND/OFIT, **First Trading Day DDAX/DGBL,** *Batch* | |
| Tue 17.09.02 | | | *Batch review* | |
| Wed 18.09.02 | 18.09.021 | 8:30 – 16:30 | Last Trading Day OSTK/OINX/FSTK/FINX, *Batch* | |
| Thu 19.09.02 | | | *Batch review* | |
| Fri 20.09.02 | 23.09.02 | 8:30 – 00:00 | | Return Status Fax |
| Sat 21.09.02 | 23.09.02 | 00:00 – 24:00 | | |
| Sun 22.09.02 | 23.09.02 | 00:00 – 24:00 | | |
| | | | | |

[1] Start pre-trading = 30 min before start of trading; start post-trading = end of trading; end post-trading = 30 min after end of trading

| *Date* | *System Date* | *Trading Hours*[1] | *Remarks* | *Action* |
|---|---|---|---|---|
| Mon 23.09.02 | 23.09.02 | 00:00 – 16:30 | Last Trading Day OFBD, *Batch* | |
| Tue 24.09.02 | | | *Batch review* | |
| Wed 25.09.02 | 26.09.02 | 00:00 – 24:00 | **DNTP Focus Day** | |
| Thu 26.09.02 | 26.09.02 | 00:00 – 16:30 | Last Trading Day FENE month, Holiday PHI1/AVE, **Volatility Interrupts Focus Day,** *Batch* | |
| Fri 27.09.02 | 30.09.02 | 12:00 – 00:00 | | Return Status Fax |
| Sat 28.09.02 | 30.09.02 | 00:00 – 24:00 | | |
| Sun 29.09.02 | 30.09.02 | 00:00 – 24:00 | | |
| | | | | |
| Mon 30.09.02 | 30.09.02 | 00:00 –16:30 | Monthly End Processing, *Batch* | |
| Tue 01.10.02 | | | *Batch review* | |
| Wed 02.10.02 | 02.10.02 | 8:30 – 16:30 | **DNTP Focus Day,** *Batch* | |
| Thu 03.10.02 | 07.10.02 | 12:00 – 24:00 | | |
| Fri 04.10.02 | 07.10.02 | 00:00 – 24:00 | | Return Status Fax |
| Sat 05.10.02 | 07.10.02 | 00:00 – 24:00 | | |
| Sun 06.10.02 | 07.10.02 | 00:00 – 24:00 | | |
| | | | | |
| Mon 07.10.02 | 07.10.02 | 00:00 – 16:30 | *Batch* | |
| Tue 08.10.02 | 10.10.02 | 12:00 – 24:00 | | |
| Wed 09.10.02 | 10.10.02 | 00:00 – 24:00 | **DNTP Focus Day** | |
| Thu 10.10.02 | 10.10.01 | 00:00 – 16:30 | Last Trading Day FINT, *Batch* | |
| Fri 11.10.02 | 14.10.02 | 12:00 – 24:00 | | Return Status Fax |
| Sat 12.10.02 | 14.10.02 | 00:00 – 24:00 | | |
| Sun 13.10.02 | 14.10.02 | 00:00 – 24:00 | | |
| | | | | |
| Mon 14.10.02 | 14.10.02 | 00:00 – 16:30 | Last Trading Day OSTK/OFBD/OINX/FSTK, *Batch* | |
| Tue 15.10.02 | 15.10.02 | 12:00 – 00:00 | | |
| Wed 16.10.02 | 15.10.02 | 00:00 – 24:00 | | |
| Thu 17.10.02 | 15.10.02 | 00:00 – 24:00 | | |
| Fri 18.10.02 | 15.10.02 | 00:00 – 12:00 | *Batch* | Return Status Fax |
| | | | | |

Figure 3.0: Eurex Release 6.0 Simulation Calendar

**Batch Review**: Please check all reports received after every batch run.

**Eurex Release 6.0 will start with the members' positions as of end of Eurex Release 5.1 simulation. Members' positions will be reset during batch processing on September 11, 2002. Members intending to test the expiry schedules for September 16, 2002 should be aware that positions in the respective products have to be built up again after being reset on September 11, 2002.**

# 7. Support

| For questions on: | Please contact: | Weekday Hours | Phone +49 69-2101- | Fax +49 69-2101- |
|---|---|---|---|---|
| Simulation Calendar, Simulation Checklists, Applications, Eurex Circulars | Eurex Functional Member Readiness | 09:00 – 18:00 | -1700 | -1701 |
| Technical Set-up | Eurex Technical Helpdesk | 06:00 – 22:00 | -1200 | -1201 |
| Equity / Index Products | Eurex Market Supervision | 07:30 – 20:30 | -1210 | -4345 |
| Fixed Income Products | Eurex Market Supervision | 07:30 – 20:30 | -1240 | -4347 |
| Clearing | Eurex Market Supervision | 07:30 – 20:30 | -1250 | -4334 |
| EEX Products | EEX Market Supervision | 07:30 – 16:00 | +49-341-21 56 333 | +49-341-21 56 111 |

**Note: The simulation environment will be unsupported on Saturdays and Sundays.**

# 8. Reporting

Eurex needs to gain an accurate status on the readiness of Members' installations. All simulation participants are kindly requested to report regularly on simulation activities and changes in the readiness status of their software applications.

Therefore, simulation participants should report the respective updated status using the Simulation Status Fax Reply by the dates indicated on the fax reply.

For members having completed all relevant tests and reported full readiness, no further fax replies will be required under normal circumstances.

# 9. Related Documentation

For further information on the introduction of Eurex Release 6.0, please refer to the Eurex Circulars and documentation listed in the table below. All Circulars and documents can be downloaded from the Internet at http://www.eurexchange.com.

Circulars are contained in the password-protected section "Info for Members > Circulars".

Manuals can be downloaded from "Info for Members > Manuals" when available.

Documentation on Values API can be found in the VALUES API Programming Version Release 6.0/GATE 3.1 at "Market Place > Programming to Eurex".

| Document | Topic | Date | Comment |
|---|---|---|---|
| Eurex Circular No. 011/02 | Support for Windows 2000 | 30.01.2002 | |
| Eurex Circular No. 030/02 | GATE 3.1 Update Kits | 27.03.2002 | 1. Distribution of Eurex 5.0 and GATE 3.0 Update Kits and Windows 2000 Full Kits on 28 March, 2002<br>2. Support for Windows XP for Eurex 5.0 from 6 may, 2002 |
| Eurex Circular No. 035/02 | Eurex Release 6.0 | 29.04.2002 | Release Announcement |
| Eurex Circular No. 37/02 | Windows XP | 30.04.2002 | Information on the Start of Support for Windows XP |
| Eurex Circular No. 044/02 | Planning Version of VALUES API documentation for Release 6.0 / GATE 3.1 | 29.05.2002 | |
| Eurex Circular No. 059/02 | Eurex Release 6.0 | 19.07.2002 | Final Functional and Technical Release Notes |

# 10. Checklist for Eurex Release 6.0 Simulation

Eurex advises Members to use this checklist to test the new functionality in simulation. The manuals Eurex @X-tract Clearing System User Guide and Eurex @X-ceed Trading System User Guide are recommended as reference.

| Functionality to be tested | Remarks |
|---|---|
| • **Delta Neutral Trading Products**<br>Simultaneous trading of related option and future contracts using a central order book to create delta-neutral positions for a member.<br>DNTP requires the adaptation of several broadcasts exchanged between the back-end, communication servers and MISS:es (new trade type D is used). | See Eurex Release 6.0 Technical Release Notes, Chapter 2.1 and 3 for details regarding raw data file changes as well as Eurex Release 6.0 VALUES documentation.<br>See Eurex Release 6.0 Functional Release Notes, Chapter 2.1 for details regarding DNTP. |
| • **Broadcast Split and Distribution**<br>Broadcasts stream groups can be distributed to various connected broadcast servers, running on separate MISSes. The broadcast split affects the public inside market broadcast stream between the communication servers and the MISS only – there are no changes of the VALUES API-based applications regarding broadcast streams and the subscription to broadcasts. **The list of products assigned to the different groups will be provided at the time of the delivery of the Simulation Kits.** | See Eurex Release 6.0 Technical Release Notes, Chapter 2.2.1 and 2.2.3. |

| Functionality to be tested | Remarks |
|---|---|
| • **Partial Position Transfer with Cash Amount**<br>A new entry has been added to the Position Transfer Entry window allowing the transfer of positions and related cash amounts between members.<br>Members are recommended to test transferring of cash only as well as the transfer of cash and positions. | See Eurex Release 6.0 Functional Release Notes, Chapter 2.3 |
| • **Permanent Quotation in Options**<br>With Eurex Release 6.0, there will be a new monitoring mechanism and member report for permanent quotation. **The products set up for permanent market making will be ODAX, OESX, OGBL, OSMI, ALV** | See Eurex Release 6.0 Functional Release Notes, Chapter 2.5 |
| • **Volatility Interrupt for Price-Time Matched Futures**<br>This new protection mechanism automatically halts trading in a product if price movements exceed predefined price limits within a certain time period**.**<br>**The Volatility Interrupt will be set in the FDAX, FESX, FGBL, and FSMI on 11 September and 26 September only.** These focus days for Volatility Interrupt testing are noted in the Simulation Calendar. | See Eurex Release 6.0 Functional Release Notes, Chapter 2.6 |
| • **String Search Facility of the Eurex Front End GUI**<br>It allows users to search for a given string in overview list boxes of windows to quickly locate individual records, such as orders and trades. | See Eurex Release 6.0 Functional Release Notes, Chapter 2.7 |

# 11. List of Products Set Up in the Simulation Environment

| ID | Description | ID | Description |
|---|---|---|---|
| ***Stock Products, Type: OSTK*** | | ***Index Products, Type: FINX/OINX*** | |
| **ALV** | Allianz-Holding | **FDAX** | DAX® Futures |
| **AVE** | Aventis | **FESB** | DJ EURO STOXX BANKS |
| **BAY** | Bayer | **FESX** | Dow Jones Euro STOXX® 50 Futures |
| **BMW** | BMW | **FFOX** | HEX25 Futures |
| **CIS** | Cisco Systems | **FGTI** | DJ GLOBAL TITANS 50 Futures |
| **CSGN** | Credit Suisse Group N | **FN50** | NEMAX 50 Futures |
| **DBK** | Deutsche Bank | **FSMI** | SMI® Futures |

| ID | Description | ID | Description |
|---|---|---|---|
| ***Stock Products, Type: OSTK*** | | ***Index Products, Type: FINX/OINX*** | |
| **DTE** | Deutsche Telekom AG | **FSTB** | DJ STOXX 600 BANKS Futures |
| **HOL** | Holderbank I | **FSTX** | Dow Jones STOXX® 50 Futures |
| **MOB** | Mobilcom | **ODAX** | DAX® Options |
| **NOA3** | Nokia Corporation | **OESB** | DJ EURO STOXX BANKS Options |
| **PHI1** | Philips | **OESX** | Dow Jones Euro STOXX® 50 Options |
| **SET** | Tele. Italia | **OFOX** | HEX25 Options |
| **SIE** | Siemens | **OGTI** | DJ GLOBAL TITANS 50 Options |
| **UBSN** | UBS AG N | **ON50** | NEMAX 50 Options |
| **VOW** | VW | **OSMI** | SMI® Options |
| | | **OSTX** | Dow Jones STOXX® 50 Options |
| ***Single Stock Futures Products, Type: FSTK*** | | ***Capital Market Products, Type: FBND/OFBD*** | |
| **DTEC** | Dt. Telekom with Cash Settlement | **FGBL** | Euro-BUND Futures |
| **DTEF** | Dt. Telekom with Physical Delivery | **FGBM** | Euro-BOBL Futures |
| | | **FGBS** | Euro-SCHATZ Futures |
| ***Money Market Products, Type: FINT/OFIT*** | | **FGBX** | Euro-BUXL Futures |
| **FEU3** | Three-Month EURIBOR Futures | **OGBL** | Options on Euro-BUND Futures |
| **OEU3** | Options on Three-Month EURIBOR Futures | **OGBM** | Options on Euro-BOBL Futures |
| **FEU1** | One-Month EURIBOR Futures | **OGBS** | Options on Euro-SCHATZ Futures |
| | | **CONF** | CONF Futures |
| ***EEX Products, Type: FENE*** | | | |
| **F1BM** | Monthly Base Load | ***Delta Neutral Trading Products*** | |
| **F1BQ** | Quarterly Base Load | **DDAX** | DNTP based on ODAX |
| **F1BY** | Yearly Base Load | **DGBL** | DNTP based on OGBL |
| **F1PM** | Monthly Peak Load | | |
| **F1PQ** | Quarterly Peak Load | | |
| **F1PY** | Yearly Peak Load | | |

Additional products may be set up in the simulation database for internal tests only. If so, you will be informed via the Market Supervision Messages window that trading in such products is not possible.

# 12. Preparation for Production Start

**Production Software Kit Distribution**

Eurex will send the Eurex Release 6.0 and Gate 3.1 production software on Friday October 28, 2002 to all Members. The software will be sent to the report nodes defined by the member. For Sun-based MISSes, Members will also receive the Windows 2000 version of the software in addition to the Sun Solaris software version. Members should ensure that their architecture is connected and running.

If the software has not been received by Monday, October 21, 2002 members should contact the Technical Help Desk by +49-69-2101-1200 or download the software from the Eurex web-site.

Please check the file transfer for completeness.

The disk space requirements are the same as for the Simulation Software Kit – Please refer to the table shown in section 5.

**Batch Processing**

The Eurex batch on October 25, 2002 will be executed with Eurex Software Release 5.1. Therefore, no specific actions need to be taken by the Eurex member. BOF messages, PTCs and reports will be sent out as usual. Eurex will delete all outstanding BOF messages and PTCs after this batch run at approximately 23:00 CET on Friday, October 25, 2002.

If the BOF messages and PTCs are required, qualified personnel should be available to be able to receive them. BOF messages and PTCs not received correctly by Members cannot be resent at a later time.

**Historical report availability**

After Eurex has introduced software version Eurex 6.0, no historical reports prior to the business day Friday, October 25, 2002 can be retrieved, and selected historical reports might be empty. It should be checked whether the selected reports have been received correctly before Friday, October 25, 2002. After batch processing on Friday, October 25, 2002, it will not be possible to recreate historical reports created by Eurex software version 5.1.

**Installation**

After receiving all BOF messages, PTCs and reports the installation of Eurex 6.0 can be started at any time.

**Connection Test**

The connection test applies to all members. The Eurex architecture is planned to be available on Saturday, October 26, 2002 at 15:00 CET.

It is necessary to verify that all systems are upgraded. The upgrade is mandatory in order to be able to trade at Eurex on Monday, October 28, 2002 after introduction of Eurex 6.0 software.

To verify the set-up, it is recommended that all systems (including back-up devices) are connected to the Eurex architecture and a logon with an arbitrary trader account is recommended. To check the set-up of broadcast subscriptions the exchange will send public broadcasts via the Market Supervision Messages window.

**Note:** Third party VALUES applications may use backward compatibility of VALUES API, but it is mandatory to install the Eurex 6.0 software.

**The Eurex Release 6.0 Final Technical Release Notes contain more detailed information.**

**Further information on the Eurex Release 6.0 production rollout will be published via circulars in due course.**

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# **eurex** *registration*

for Eurex Release 6.0 Simulation (September 09 – October 18, 2002)

**Please return this registration before August 30, 2002 by Fax to Eurex Member Readiness +49 69-2101-1701**

| | |
|---|---|
| Member name: | Member ID: _ _ _ _ _ _ |
| Contact name: _____ | Fax: _____ Tel: _____ |

❍ **Hereby we would like to register for participation in the Eurex Release 6.0 Simulation (September 09 – October 18, 2002).**

❍ **We will not participate in the simulation for the following reasons:**

**We use/ plan to use the following (3rd party ) software applications**

| | | |
|---|---|---|
| Front Office: | | Version: |
| Back Office: | | Version: |

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# F a x - R e p l y - Simulation Status

**Eurex Release 6.0 Simulation - September 09, 2002 – October 18, 2002**

We kindly ask you to copy, fill in and return this fax on the following dates:

**13 September, 20 September, 27 September, 4 October, 11 October, 18 October**

**To: Eurex Member Readiness Frankfurt** **Fax: +49-69-2101 1701**

MEMBER – ID __ __ __ __ __ Name _____

Company _____ Phone _____

| **Front Office** | |
|---|---|
| a) Successfully traded with Eurex Trading GUI @X-ceed?<br>b) Successfully traded with Third Party application<br>Name of the application:_____ | ❍<br>❍ |
| **Back Office** | |
| a) Successfully used the Eurex Clearing GUI @X-tract?<br>b) Successfully used a back office Third Party application<br>Name of the application:_____<br>c) Successfully tested enhanced Trade Adjustment functionality | ❍<br>❍<br>❍ |
| d) End of Day processing performed correctly? | ❍ |
| **All Front Office Applications are ready for production** | ❍ |
| **All Back Office Applications are ready for production** | ❍ |
| Issues / comments: | |

| **Technical Infrastructure** | | |
|---|---|---|
| Successfully installed and tested | | |
| **Platform** | **MISS** | **Workstations** |
| Windows 2000 | ❍ | ❍ |
| Windows XP | ❍ | ❍ |
| Sun Solaris | ❍ | ❍ |

Date Signature