

NOTICE GEN 04/17

Date: 8 September 2017

Subject: FIA Disaster Recovery Test

The Technology Division of the FIA (Futures Industry Association) has organized an industry-wide Disaster Recovery Test on **Saturday 14 October 2017 from 12:30 to 15:00 CET**. BME CLEARING and MEFF have joined this initiative and invite all Members to participate.

Available Products

This test will be focused on Financial Derivate products, thus, other segments like Public Debt Repos, Energy, Interest Rate Swaps and Equity will not be available for this test.

During the test, MEFFStation terminals and FIX client applications for trading or clearing will be able to connect the BME CLEARING and MEFF production environments. The session date will be 14 October and order entry will be allowed.

Disaster simulation

The test will consist in the execution of a trading and clearing session interrupted due to a simulated disaster at the Las Rozas main data center (LRZ). All the equipment connected to LRZ DC will be blocked or unavailable:

- Central Hosts.
- Colocation MEFFAccess servers.
- Proximity MEFFAccess servers.
- LRZ centralized MEFFAccess servers reachable from circuits directly managed by the members, thus, unmanaged by BME.
- LRZ centralized MEFFGate Clearing servers.

The session will continue from the alternative data center:

- Colocation and Proximity members will not be able to continue the session.
- Members with circuits unmanaged by BME to LRZ DC should connect to the alternative MEFFAccess servers located at Lealtad Data Center.
- Members that establish connection to the centralized MEFFGate servers at LRZ DC should connect to the alternative MEFFGate servers located at Lealtad Data Center.
- Members with MEFFAccess located at their premises will see that their MEFFStations and FIX clients will remain blocked and will be automatically available once the switching process is ended and the session resumed.

Some considerations

Any orders are sent during the test will remain pending during the whole process in spite of the Host disconnection, unless they have been marked as "Cancel on disconnection"

No information about fees, margins and cash movements will be distributed.

All records of the testing session will be removed from the production systems.

Terminals used to store historical data must not be connected during the test. Please do not use MEFFServer or MIBOS in this test.

Back-up to back-up

The FIA asks all participants to connect from their backup sites. Members should be able to send/receive information from their backup data center to the BME CLEARING and MEFF backup data centers.

Ping testing

BME CLEARING and MEFF network infrastructure has connectivity redundancy.

- All equipment (MEFFAccess servers, MEFFStations terminals or FIX clients) have at least two different access points available.
- MEFFAccess servers are configured to perform automatic switching in case of failure.
- MEFFStation application can be configured by the member to perform automatic switching in case of failure.
- FIX client application switching depends on Member's software.

MEFFStation and FIX client applications switching configuration depends on the member, so the traders/system operators should know how to configure them if necessary. In case of any doubt about the IPs/ports of the main/backup access points please do not hesitate in contact us at Tech.Helpdesk@grupobme.es.

Given that the network infrastructure is redundant and is always enabled, all the access points are permanently reachable, so it is not necessary perform a weekend test. That is the reason why BME CLEARING and MEFF do not participate in the weekends of September FIA ping tests.

Test registration

To register (NEW Test Registration), please use the following path:

<https://secure.fia.org/bcp/test-registration.asp>

Members who wish to join the test must register online on this web site. The login username is "bcdr" and the password is "f142o!7".

For any further information, please contact Tech.Helpdesk@grupobme.es

Schedule in CEST time zone

12:30	Workstations and FIX client applications can be connected
13:00	Market opens
13:30 – 13:45	Simulation of disaster at the main site and execution of the Disaster Recovery procedure activating the backup Host at the disaster recovery site
14:00	Trading restarted with an auction period
14:30	End of trading sesión
14.30	After the end of session, the raw data files will be available in MEFFStation terminals
15:00	End of test

Test description

- BME CLEARING and MEFF are responsible for starting the production MEFFAccess servers of the Members who participate in the test.
- Member must connect the MEFFStations terminals and the FIX clients they might need for the test.

Fail and recovery

- MEFFAccess and MEFFStations located in member's offices will show session blocked during the fail test and will get automatically reconnected after the switching.
- MEFFAccess located at LRZ DC will remain disconnected and they will not recover.
- Trading FIX clients that connect to MEFFAccess servers located at Member premises will receive blocked/unblocked information (network counterparty status) and once unblocked, they can continue their operation.
- Trading FIX clients that connect to MEFFAccess servers located at LRZ DC will receive blocked information (network counterparty) but not unblocked information. These FIX clients must restart FIX session in their alternative access point.
- Clearing FIX clients that connect to MEFFGate servers located at LRZ DC will receive blocked information (network counterparty) but not unblocked information. These FIX clients must restart FIX session in their alternative access point.

Support during the test

- Operations Department: Available from 12:30 to 15:00 CEST (06:30 a 09:00 EDT): +34 91 709 58 62 or clearingHelpdesk@grupobme.es.
- Information about the evolution of the procedure: Through the BME CLEARING website: <http://www.bmeclearing.es/> and the FIA website <http://www.futuresindustry.org>.