MEFF

NOTICE 33/18

Date: **16 October 2018**

Subject: **MEFF. BME Continuity Test**

BME will carry out a continuity test this year, in which a simulated disaster will take place at the Main Data Centre and systems will failover to the Alternative Data Cetre. The test will take place on **Saturday, the 10th of November 2018, between 09:00 and 14:15 CET**.

MEFF will participate in this test and invites all members to participate also.

This test will use the **production systems** and will require bringing forward the start of the session of Monday the 12th of November. The market state will not permit the sending of orders, however for all intents and purposes it will be a valid session, (e.g. any changes made in MEFFStation configuration or filter modifications will remain active in the system).

Available Products and Affected Services:

Both the Financial Derivatives and MEFF Power markets will be available, although the simulation of the system failure will be limited to Financial Derivatives, M3 connections will suffer technical disconnections, whilst M7 connections will continue uninterrupted.

During the test, trading MEFFStations and trading FIX clients will be able to connect to the MEFF production environments. The session date will be the 12th November and the market will not open and therefore no trading functionality will be enabled.

Proximity and colocation MEFFAccess communication servers do not have access to the host at the alternative data centre and therefore will not participate in this test. They will be started in the normal manner on Monday, the 12th of November.

It is recommended to avoid connecting terminals with historical data during the early hours of Saturday and Sunday.

Disaster Simulation

MEFF will simulate the failure of the central hosts at the main location in the financial derivatives environment and following the established emergency procedures, the data centre will change from the main address to the alternative data centre.

The session will continue at the alternative data centre. Member MEFFStations and FIX clients will remain connected but off-line and will then come on-line automatically once the failover has been completed.

After a short period of time a second failure will be simulated and the same procedures will be followed to failover to the main data centre, which will previously have been restored as the passive host, i.e. a failure will be simulated in Financial Derivatives at the alternative data centre and systems will failover to the main data centre.

After the two failures, the session will be active at the main data centre and passive at the alternative data centre, this is the normal situation during any session.

<u>Participation in the Test</u>

The registration to participate in the test, for all services that will take part, has been centralized on the BME Group website

https://www.bolsasymercados.es/esp/Continuidad-Negocio/Prueba-Miembros-Registro

Members that wish to take part should register at this website. For any query, please contact meffmarketservices@grupobme.es

Once the test finishes, you may send the results with your comments to the same email address.

Schedule (CET)

1	9:00	Start of the test. Connection of MEFFStation terminals and FIX clients.
2	9:15	First Failure. Simulation of disaster at the main data centre and enabling of the hosts at the alternative data centre, in line with the disaster recovery procedures. Main data centre is restored in passive mode.
3	11:15	Recovery of the system at the backup Host.
4	11:45	Second Failure. Simulation of disaster at the alternative data centre and enabling of the hosts at the main data centre, in line with the disaster recovery procedures. The Backup Host will be recovered in passive mode.
5	13:45	Recovery of the system at the main Host.
6	14:15	End of Test. From this time, the Market Services Department will not be available until 7:00 on Monday the 12th of November.
7	**Remainder of Saturday and all of Sunday**	MEFFStations and FIX Clients can connect or remain connected, if so wished.

Description of the test

• MEFF will be responsible for bringing forward the start of the production MEFFAccess communication servers, except for those in proximity and colocation.

• Members must connect the MEFFStation terminals and the FIX trading clients to participate in the test.

First failure and recovery. Expected correct behavior

- MEFFStations located at the members' sites will remain connected but off-line during the failure simulation and will automatically come on-line after the failover.

- FIX trading clients will receive Network Counterparty System Status Responses, message type BD, informing of the connection status and when normal operations can be continued.

Second failure and recovery. Expected correct behavior

- MEFFStations located at the members' sites will remain connected but off-line during the failure simulation and will automatically come on-line after the failover.

- FIX trading clients will receive Network Counterparty System Status Responses, message type BD, informing of the connection status and when normal operations can be continued.

<u>End of the test and connection for Monday, the 12th of November</u>

The end of the test means that the systems will remain in the normal production status, awaiting the scheduled start of the market on Monday morning.

MEFFStations and FIX clients that have participated in the test can connect, or remain connected, if so desired. Other MEFFStations or FIX Clients can connect at the usual time or at any time during the weekend, except for those in colocation or proximity that will have to wait until the usual connection time window, beginning on Sunday night.

<u>Support during the test</u>

- Support will be available from 9:00 to 14:15 CET by telephone +34.91.709.5300 or via email <u>meffmarketservices@grupobme.es</u>

Information about the progress of the test: Through the BME Group website <u>https://www.bolsasymercados.es/esp/Continuidad-Negocio/Prueba-Miembros-Estado</u>