

NOTICE 20/19

Date: 7 October 2019

Subject: MEFF. BME Continuity Test

BME will carry out a continuity test as it did last 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 **9 November 2019**, 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 11 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 and Affected Segments:

Financial Derivatives segment (including FOREX) will be available, and the simulation of the system failure will be on M3, MD connections which will suffer technical disconnections.

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 11 November and the market will not open and therefore no trading functionality will be enabled.

Proximity and Co-location MEFFAccess communication servers do not have access to the host at the alternative data center and therefore will not participate in this test. They will be started in the normal manner on Monday 11 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 and MEFF Power environment and following the established emergency procedures, the data center will change from the main address to the alternative data center.

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



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 Co-location.
- 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.

End of the test and connection for Monday, the 11 November

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.

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 center and enabling of the hosts at the alternative data center, in line with the disaster recovery procedures. Main data center is restored in passive mode. |
| 3 | 11:15 | Recovery of the system at the backup Host. |

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| 4 | 11:45 | Second Failure. Simulation of disaster at the alternative data center and enabling of the hosts at the main data center, in line with the disaster recovery procedures. The Backup Host will be recovered in passive mode. |
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| 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 12 th of November. |
| 7 | Remainder of Saturday and all of Sunday | MEFFStations and FIX Clients can connect or remain connected, if so wished. |

Participation in the Test

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.

Support during the test

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

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

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