DRESS REHEARSAL GUIDE

SATURDAY, OCTOBER 2ND 2021

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BORSA ITALIANA

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1. INTRODUCTION

1.1 Scope

The purpose of this document is to describe the Dress Rehearsal activities that will take place on **Saturday, October 2nd 2021**.

The purpose of this Dress Rehearsal is to verify that all participants connecting to Milan markets from London and Frankfurt using an LSE-provided connectivity option (London co-location or London CMC either via a direct or a Service Provider connection) can correctly access Borsa Italiana trading platforms (MIT and SOLA) and GTP/GTPLite services following an internal network infrastructure change affecting TCP IP/unicast connections and the dissemination of multicast/UDP services.

In particular, participants attending the testing sessions are required to:

1. double check their logon procedures for all the enabled users configured for MIT and SOLA trading plstforms, and for all the enabled Comp IDs on GTP/TPLite service;
2. double check their login procedures for all sftp services available (i.e reference data files);
3. carry out standard trading activity entering/amending/deleting orders and executing trades;
4. carry out market making activity (market makers and specialists) validating the correct behaviour of their quoting systems.
5. Verify the correct receipt of market data feed via GTP/GTPLite service

During the test a **SDC invocation (Disaster Recovery)** will be simulated for all Borsa Italiana trading platforms and GTP/GTPLite service.

All participants are required to double check their logon procedures for all the enabled User IDs to both Primary Data Centre and Secondary Data Centre, and to enter/amend/delete orders and quotes (single/double) and execute trades on both instances.

The scope of the Disaster Recovery Test is to verify connectivity also to SDC after the internal network infrastructure change is implemented.

1.2 Enquiries

Please contact either Client and Market Services or your Customer Relationship Manager if you have any functional questions about the services outlined in this document.

Client and Market Services can be contacted at:

- Customer Relationship Management
  - o Email: clients-services@borsaitaliana.it

- Client Support
  - o Free Toll Number: 00800 26772000
  - o From mobile: +39 02 45411399
  - o Email: client-support@borsaitaliana.it

2. TEST OVERVIEW

All the market participants are required to logon to the current version of MIT and SOLA trading platforms and connect the current version of GTP/GTPLite service from all relevant applications.

The test is performed in the production environment of all the services involved:

- MTA, MIV, AIM-MAC, ETF Plus, MOT, SeDeX and ETLX markets on MIT platform
- IDEM, IDEX and AGREX markets on SOLA platform
- GTP/GTPLite (Group Ticker Plant) Service
- BTS®: make sure to install the most updated version available on the website at the link http://www.borsaitaliana.it/borsaitaliana/gestione-mercati/bts-bittradingstation/bts.en.htm
- BCS (Bit Clearing Station)
- FTP/SFTP reference data services

All trades executed during the test session will **not** be sent to the production Post Trade systems.

Customers should also be informed that IDEX Trayport Service will not be activated during the dress ehearsal.

All the real time updates to customers during the Dress Rehearsal will be published at the following link:

https://www.borsaitaliana.it/borsaitaliana/gestione-mercati/comunicazionitecniche/comunicazionitecniche.en.htm

Customers are invited to send an email to **clients-services@borsaitaliana.it** confirming the participation to the Customer Dress Rehearsal.

3. PRE – DRESS REHEARSAL ACTIVITIES

The test will be performed in the standard production environment, customers will log in to production systems using the credentials already live in production environment for the relevant service. However, before the CDR customers are invited to test the connectivity in terms of successful telnets to both the Primary and Secondary Data Centre IP addresses. In particular:

- SOLA production (Primary and Disaster Recovery) IP addresses are listed in the SOLA Connectivity guide available at:
  http://www.borsaitaliana.it/borsaitaliana/gestione-mercati/migrazioneidem/migrazioneidem.en.htm

SOLA SDC (Disaster Recovery) IP addresses are available for telnet (not login) during standard market hours.

- Millennium IT production (Primary and Disaster Recovery) IP addresses are listed:
  - in the MIT701 (TAH market) and MIT702 (main markets and EuroTLX) documents available at:
    http://www.borsaitaliana.it/borsaitaliana/gestione-mercati/migrazionemillenniumit-mit/millenniumitmigration.en.htm

- GTP production (A and B feed) IP addresses are available in the GTP004 published at:
  http://www.londonstockexchange.com/products-and-services/millennium-exchange/documentation/documentation.htm

Customers are kindly reminded that all the technical documentation is available at the following links:

MIT Platform – Borsa markets

https://www.borsaitaliana.it/borsaitaliana/gestione-mercati/migrazionemillenniumit-mit/millenniumitmigration.en.htm

SOLA Platfrom - Derivatives markets

https://www.borsaitaliana.it/borsaitaliana/gestione-mercati/migrazioneidem/migrazioneidem.en.htm

GTP service

https://www.borsaitaliana.it/borsaitaliana/gestione-mercati/group-ticker-plant/overview.en.htm

4. REHEARSAL ACTIVITIES

Participants are required to logon with at least one Comp ID/user per Market and per type of activity performed.

During the test session participants shall perform the following activities:

- verify the connectivity to the current version of MIT Platform
- verify the connectivity to the current version of SOLA Platform
- verify the connectivity to the sftp services available
- verify the connectivity and the correct login to GTP/GTPLite Service
- validate the trading functions of their proprietary and/or third party software applications including quoting systems
- verify the correct message handling of the market data feeds through the GTP/GTPLite Service

Customers should perform the following basic activities:

- Login procedure:
    - Connect to the current version of MIT and SOLA Platform with at least one Comp ID/user per type of activity performed
    - Connect to the current version of GTP/GTPLite Service through at least one Comp ID
- Basic trading activity:
    - Enter / Modify / Cancel Orders
    - Trades management
    - Enter Quotes (Specialists only)
    - Modify Quotes (Specialists only)
    - Delete Quotes (Specialists only)
    - Submit RFQ on ETF/MOT/EuroMOT/ExtraMOT and ETLX markets.
    - Respond to RFQ (market makers only)
- Market data dissemination:
    - Check correct reception of real time feed (orders and prices)

During the session in order to facilitate order executions, an **injector** active will send a fixed rate of orders and trades on the relevant markets.

After the SDC invocation customer will be required to connect to the Secondary Data Centre with the same Comp IDs/Users previously connected to PDC and perform the same kind of market activity done while connected to the Primary Data Centre.

Customers should consider that:

- On SOLA Platform once connected to SDC customer should execute and verify trades reception via BCS without detecting orders, quotes and trade numbers duplication (see details in Appendix 1). All trades executed during the test session will be available for customers via BCS GUI and BCS API.
- On MIT Platform once the Disaster Recovery Site is active all orders and quotes will be cancelled and the trading system will be re-started. Participants should note that no updated Execution Reports will be sent identifying those orders cancelled together with the activation of the DR site. All instruments will be reinstated in an auction call state. Instruments for which this is not applicable will be reinstated to a Pre-Mandatory Trading Session.
  Following recovery to the Disaster Recovery Site it is recommended for all participants to:
  - o execute an Own Trade Download to confirm which trades have been sent to clearing and settlement
  - o execute an Own Order Book Download to confirm that no orders are currently active
  Once the Disaster Recovery Site is active all FIX message sequence numbers will be reset to 1 on the Exchange FIX Gateways. Customers must also reset their outgoing sequence numbers to 1 before reconnecting to Disaster Recovery Site
- On GTP service following the Disaster recovery invocation:
  - o Feed B will be available in SDC and will be broadcasted in lower case.
  - o Customers should expect to experience a reset of message sequence numbers to one

Customers are informed **BTS will participate to SDC invocation**, so users will connect to BTS server in SDC after the SDC invocation is completed.

TRADING DATE

The trading date will be set to **Saturday, October 2ⁿᵈ 2021**.

The MIT 305 reference data files for MIT platform and the reference data files for SOLA platform will be dated **Saturday, October 2ⁿᵈ 2021**.

The instruments available for the CDR will be:

- for markets on MIT platform, the ones configured for the trading session of Monday, 4ᵗʰ October 2021
- for markets on SOLA platform, the ones used for the trading session of Monday, 4ᵗʰ October 2021

5. SESSION TIMETABLE

The test session will start at 9:00 am CEST (login) and will end at 4:00 pm CEST as detailed below.

The logon to MIT trading platform, SOLA trading platform, BTS and GTP service will be available starting from 9:00 am CEST.

Trading Sessions	Start time	End time
Login available	9:00	
Trading activity in PDC	9:00	11:30
SDC invocation	11:30	14:30
Trading activity in SDC	14:30	16:00

All times are in Central European Summer Time (CEST).

We inform you that any active order that remain on the order books after the test will be cancelled at the end of the session.

Customers can consider the test finished at 4:00 pm CEST.

Further internal tests will be performed during the day. Customers are invited to disconnect their production sessions, and disregard any data that may be disseminated to Millennium IT, SOLA, GTP and GTP Lite production environments during the rest of the day.

6. TEST RESULTS CONFIRMATION

At the end of the test session, Customers are required to confirm the success of their day's testing.

The preferred approach is for customers to send an email to **clients-services@borsaitaliana.it**.

7. CUSTOMER SUPPORT

During the test session participants can contact the Borsa Italiana Client Support Team for assistance:

Toll Free: 0080026772000

From mobile: +39 02 45411399

email: **client-support@borsaitaliana.it**

Customer Relationship Management team will also be on hand for any query.

CONTACT

Customer Relationship Management Technology

clients-services@borsaitaliana.it

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