

DRESS REHEARSAL GUIDE

SATURDAY, MAY 28TH 2022

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BORSA ITALIANA

TABLE OF CONTENTS

- 1. Introduction 3**
- 1.1 Scope 3**
- 1.2 Enquiries 4**
- 2. Test Overview 5**
- 3. Pre – Dress Rehearsal Activities 6**
- 4. Rehearsal Activities 7**
- 5. SESSION TIMETABLE 11**
- 6. Test Results Confirmation 12**

1. INTRODUCTION

1.1 Scope

The purpose of this document is to describe the Dress Rehearsal activities that will take place on **Saturday, May 28th 2022**.

The purpose of this Dress Rehearsal is to test the failover mechanism and verify that all participants connecting to Milan markets can correctly access Borsa Italiana trading platforms (MIT and SOLA) and GTP/GTPLite services in an event of a **SDC invocation**.

During the test a **SDC invocation (Disaster Recovery)** will be simulated for Borsa Italiana IDEM, IDEX and AGREX markets running on the SOLA platform and MTA, MIV, EGM, Bit GEM, MOT, ExtraMOT, ETFPlus, SeDeX, EuroTLX and TAH markets running on MIT platform. GTP/GTPLite service will also be affected by the Disaster Recovery invocation test.

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.

Before and after the SDC invocation 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 platforms, 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

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
 - Email: clients-services@euronext.com

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

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, EGM, 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 rehearsal.

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@euronext.com** 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:
 - **sola connectivity guide issue 21 - Borsa Italiana**

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:
 - **MIT702 Connectivity Specification MAIN 2 3 - Borsa Italiana**
 - **MIT701 Connectivity Specification 2 1 - Borsa Italiana**
- GTP production (A and B feed) IP addresses are available in the GTP004 published at:
 - **gtp 004 - parameters guide - issue e1 2 - Borsa Italiana**

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

MIT Platform – Borsa markets

Millennium IT - Borsa Italiana

SOLA Platform - Derivatives markets

IDEM - Borsa Italiana

GTP service

Group Ticker Plant - Borsa Italiana

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.

The aim of the Disaster Recovery is to test the full unavailability of the Primary Data Centre Site (where also the co location room is installed). As a consequence of this customers will not be able to connect to the IP addresses of the gateways installed in the Secondary Data Centre from the co location after the SDC invocation is completed.

Also, during the SDC invocation primary lines connected to the PDC will be disabled. As a consequence of this:

- Clients connected to PDC via a non resilient Bitnet solution will not be able to connect to SDC after the invocation is completed;
- Clients connected via Milan CMC will see the primary link connected to PDC down, and should ignore any alarm that might be generated.

In the time window between 2.30 pm CEST and 3 pm CEST (after the test is concluded) primary links connected to PDC will be restored and responders to the Primary Data Centre will be activated.

In this time window clients connected via Bitnet and Milan CMC are invited to test connectivity (only telnet) to the Primary Data Centre using the standard destination IP addresses and ports configured for PDC.

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:

- execute an Own Trade Download to confirm which trades have been sent to clearing and settlement
- 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:

- Feed B will be available in SDC and will be broadcasted in lower case.
- 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, May 28th 2022**.

The MIT 305 reference data files for MIT platform and the reference data files for SOLA platform will be dated **Saturday, May 28th 2022**.

The instruments available for the CDR will be:

- for markets on MIT platform, the ones configured for the trading session of Monday, 30th May 2022;
- for markets on SOLA platform, the ones used for the trading session of Monday, 30th May 2022.

5. SESSION TIMETABLE

The test session will start at 8:00 am CEST (login) and will end at 3:00 pm CEST as detailed below.

The logon to MIT trading platform, SOLA trading platform, BTS and GTP service will be available according to the standard scheduling.

Trading Sessions	Start time	End time
Login available	8:00	
Continuous Trading activity in PDC	9:00	10:30
SDC invocation	10:30	12:30
Trading activity in SDC	12:30	14:30
Telnet test to PDC environment	14:30	15:00

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 3:00 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@euronext.com**.

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@euronext.com**

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

CONTACT

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clients-services@euronext.com

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