



**BORSA
İSTANBUL**

BISTECH 3.0 Dress Rehearsals
T e c h n i c a l I n f o r m a t i o n a n d
S c e n a r i o D o c u m e n t

April 2023

1. General Information

The necessary information for the BISTECH 3.0 dress rehearsals, which took place on April 15 and will take place on May 13 and June 3, 2023 is presented to you in this document. In order for the dress rehearsals to be successfully carried out, it is important that the technical information in the document is taken into account and the scenarios mentioned in the specified scope and quality are applied and the results are evaluated by you.

Each dress rehearsal will start with all systems opening as a normal working day on Saturday morning on the specified dates and session hours valid in the production environment will be applied. In case of necessity during the rehearsals, announcements will be made by the Borsa İstanbul (warnings, information, etc. related to trials) through the CONNECT Member Platform (<https://connect.borsaistanbul.com/>). It is necessary to carefully follow the announcements made from this environment for efficient and healthy rehearsals.

2. Technical Information

2.1 Obtaining BISTECH 3.0 Trial Environment Access Information

With BISTECH 3.0, the BISTECH system will run on a completely renewed hardware infrastructure in the existing data center. All IP address information used for FIX/ITCH/OUCH/TIP/TW connections will change. The connection information and TW installation file/guide required for rehearsal and tests to be carried out on new servers have been shared via the CONNECT Member Platform.

All user information currently allocated to our members and new user information that will be used with BISTECH 3.0 are located in the “Users and Permissions” section of the CONNECT Member Platform.

The password field does not contain information for FIX OE, FIX RD, TW, GIW, OUCH, GLIMPSE, PTRM, KASA, TESCİL and KMTP FIX DC users. The following table will be valid for the passwords that these users will use in connection tests.

Dress Rehearsal-2	Dress Rehearsal-3	Go-live Weekend	Go-live Day
<i>Saturday, May 20, 2023</i>	<i>Saturday, June 3, 2023</i>	<i>Sunday, June 11, 2023</i>	<i>Monday, June 12, 2023</i>
Current prod environment password on Friday, May 5	Current prod environment password on Friday, May 26	Current prod environment password on Friday, June 9	Current prod environment password on Friday, June 9

The passwords for Pay, ViOP, and BAP FIX Drop Copy users, which have been newly defined and will be activated with the BISTECH 3.0 transition, have been shared through the Connect platform. These passwords will be valid for connectivity tests and the transition to the live environment. For BISTECH 3.0 Data Vendor (TIP) users, test passwords are available on the Connect platform, and these passwords will be used for connectivity tests. The passwords currently used for live connectivity will remain valid during the transition to the live environment.

The “BISTECH 3.0 Connect User Information” document containing access details to the screen where API and Application Users belonging to BISTECH 3.0 are located on CONNECT Portal has been shared at <https://www.borsaistanbul.com/en/sayfa/2530/technical-documents> .

Unofficial Translation

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2.2 Backup System Transition (Fail Over) Tests

During dress rehearsals, failover tests will be performed on FIX DC (Drop Copy), FIX OE (Order Entry), FIX RD (Reference Data), OUCH, and ITCH servers. On the rehearsal day, primary servers will be made unavailable without notice between 13:00-17:00 (Turkish time) and will remain closed until the end of the day. Our members are expected to connect to the standby servers given to them during this time and continue their transactions from the standby server until the end of the day. Primary GW IP and Standby GW IP address information is located on the CONNECT Member Platform.

With BISTECH 3.0 version, it has been switched from active-passive architecture to active-active architecture in FIX Drop Copy servers. Therefore, it is important that our members complete the preparations required by this functional change.

It is important that users carefully perform their transitions and controls during the transition tests of servers providing services in active-active and/or active-passive architecture to the backup system. The redundancy test, in which institutions participate, will not be repeated except for two planned rehearsals (May 20 and June 3, 2023).

2.3 Market Operational Reports (Member/Data Vendor)

Operational reports for markets can be manually obtained from the VERDA menu via <https://connect.int.uyg.borsaistanbul.com/> on dress rehearsal days. At the same time, the relevant reports can also be accessed via <https://verda.int.uyg.borsaistanbul.com>.

2.4 Support

You can get support from bistechsupport_autoticket@borsaistanbul.com email address for your questions and help requests related to dress rehearsals.

3. Test Scenarios

It is expected that the tests specified below will be carried out by the members participating in the test.

Criteria	Test Scenario	
Connections to be tested <i>*It is expected that connections will be tested with all user types.</i>	FIX OE	Establishing a connection through FIX users and transmitting orders & quotations for each partition, checking messages related to orders and transactions, comparing with current message contents in production environment
	FIX Drop-Copy (DC)	Establishing a connection to each partition through DC users, checking messages related to orders and transactions, comparing with current message contents in production environment, ensuring necessary checks for DC filters
	FIX Reference data (RD)	Establishing a connection through RD users and checking data flow, comparing with current message contents in production environment message contents
	Trading Workstation (TW &KIT)	Establishing a connection through TW and KIT users, sending orders, canceling orders and making transactions

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	<p>OUCH</p>	<p>Establishing a connection through OUCH users and checking messages related to orders and transactions for each partition, comparing with current message contents in production environment</p>
	<p>ITCH</p>	<p>Establishing ITCH-Glimpse-Rewinder connection and checking data</p>
	<p>PTRM</p>	<p>Establishing PTRM GUI and API connection and checking users within risk groups</p>
	<p>TIP</p>	<p>Establishment of data vendor's connection (local/POP) and control of data flow</p>
<p>Test Items (All Markets)</p>	<p>It is expected that the test items specified below will be carried out for the Derivatives Market, Equity Market, Debt Securities Market, Precious Metals and Diamonds Market.</p> <ul style="list-style-type: none"> • Order entry and transaction execution in different order types and different instruments • Order amendment and cancellation • Sending special transaction notifications • Quotation entry by market maker institutions • Connection attempt with incorrect password • Password change attempt • Checking operational reports and comparing them with the contents of the current live environment 	
<p>Derivatives Market</p>	<p>In addition to the general test steps, it is expected that the test items specified below for the Derivatives Market will also be carried out.</p> <ul style="list-style-type: none"> • Sending an order with a non-existent member account • Sending orders outside price limits (rejected and suspended orders) • Sending and executing strategy orders • Sending orders during the opening session • Entering orders in LMT, Stop, Market-to-Limit order types during the normal session • Partial and full execution of entered orders • Order amendment and cancellation in stop and normal orders • Creation of a flexible contract (option + futures) • Sending orders during the normal session that will be valid during the evening session • Sending orders during the evening session 	
<p>Precious Metals and Diamonds Market</p>	<p>In addition to the general test steps, it is expected that the test items specified below for the Precious Metals and Diamonds Market will also be carried out.</p> <ul style="list-style-type: none"> • Order entry and transaction in fund accounts for banks • Vault login and execution of ELTAS instructions 	