

## Procedures for Conducting Connectivity Tests

The full trading participant (PNP) and the trading participant (PN) must conduct daily morning connectivity tests for the connections relevant to the functioning of their activities, in addition to at least one contingency connection. Relevant connections are those that frequently inserted orders in the previous month for real instruments, according to parameters published on the B3 website. Any other connection that presents operations with test assets, regardless of the observed frequency, will be considered a contingency connection.

The connectivity tests must cover, in addition to relevant connections, market data dissemination channels or copies of execution report messages (drop copy). The purpose of the tests is to validate the systems, trading screens, and connections of the full trading participant and the trading participant, directly connected to the trading system, allowing for the prior identification of problems that may affect both the trading environment and the trading system.

Full trading participants must conduct morning connectivity tests for the connections originating from their own system or a provider system intended for use by their clients or trading professionals. It is the responsibility of the trading participant to carry out the morning connectivity tests for the connections provided by the full trading participant, originating from the trading participant's own system or a provider system intended for use by their clients or trading professionals.

The client is responsible for conducting the morning connectivity tests for the connections originating from their own system. Automation of the connectivity test is permitted, and it is the responsibility of the entity directly connected to B3 to archive the information and evidence of their participation daily.

The full trading participant and the trading participant during the period corresponding to the connectivity test are responsible for immediately communicating to B3 any detected failures.

The instruments for connectivity tests should not be used for performance testing of the systems during the trading session. B3 may make instruments available for performance testing at its sole discretion after the trading session has ended.

## 1. Connectivity tests timetable

1.1 Derivatives Segment: daily, from 6:30 AM to 8 AM

1.2 Equities Segment: daily, from 6:30 AM to 8 AM.

## 2. Test Instrument symbols

B3 offers specific instruments for conducting the connectivity test on the electronic trading platform for listed securities, PUMA Trading System, for each market segment. The instruments can be found in the tables below:

### 2.1 Derivatives Segment:

Instrument Symbol	Matching Engine	Market Data FIX/FAST	Market Data SBE	Environment
TF0Z99	3	10	72	PRODUCTION
TF1Z99	4	1	74	PRODUCTION
TF2Z99	4	2	74	PRODUCTION
TF3Z99	5	3	76	PRODUCTION
TF4Z99	5	4	76	PRODUCTION
TF5Z99	1	5	68	PRODUCTION
TF6Z99	1	6	68	PRODUCTION
TF7Z99	2	7	70	PRODUCTION
TF8Z99	2	8	70	PRODUCTION
TF9Z99	5	9	76	PRODUCTION
TF0Z98	3	10	72	DR
TF1Z98	4	1	74	DR
TF2Z98	4	2	74	DR
TF3Z98	5	3	76	DR
TF4Z98	5	4	76	DR
TF5Z98	1	5	68	DR
TF6Z98	1	6	68	DR
TF7Z98	2	7	70	DR
TF8Z98	2	8	70	DR
TF9Z98	5	9	76	DR

## 2.2 Equities Segment:

Instrument Symbol	Matching Engine	Market Data Channel FIX/FAST	Market Data Channel SBE	Environment
TF473	4	65	86	PRODUCTION
TF483	4	66	86	PRODUCTION
TF493	5	67	88	PRODUCTION
TF503	5	68	88	PRODUCTION
TF513	1	51	80	PRODUCTION
TF523	1	52	80	PRODUCTION
TF533	2	53	82	PRODUCTION
TF543	2	54	82	PRODUCTION
TF553	6	55	90	PRODUCTION
TF565	6	56	90	PRODUCTION
TF563	6	56	90	PRODUCTION
TF573	3	57	84	PRODUCTION
TF583	3	58	84	PRODUCTION
TF593	3	57	84	PRODUCTION
TF603	5	60	88	PRODUCTION
TF623	5	67	88	PRODUCTION
TF655	9	59	98	PRODUCTION
TF665	7	70	92	PRODUCTION
TF675	8	71	94	PRODUCTION
TF685	8	72	94	PRODUCTION
TF693	7	69	92	PRODUCTION
TF703	7	70	92	PRODUCTION
TF713	8	71	94	PRODUCTION
TF723	8	72	94	PRODUCTION
TF519	9	59	98	PRODUCTION
TF681	7	69	92	PRODUCTION
TF474	4	65	86	DR
TF484	4	66	86	DR
TF494	5	67	88	DR
TF504	5	68	88	DR
TF514	1	51	80	DR
TF524	1	52	80	DR
TF534	2	53	82	DR
TF544	2	54	82	DR
TF554	6	55	90	DR

Instrument Symbol	Matching Engine	Canal de Market Data FIX/FAST	Market Data Channel SBE	Environment
TF564	6	56	90	DR
TF574	3	57	84	DR
TF584	3	58	84	DR
TF594	3	57	84	DR
TF604	5	60	88	DR
TF624	5	67	88	DR
TF518	9	59	98	DR
TF682	7	69	92	DR
TF694	7	69	92	DR
TF704	7	70	92	DR
TF714	8	71	94	DR
TF724	8	72	94	DR

We highlight that other instruments will be still available on Production environment.

### 3. Integration with other systems

#### 3.1 Instrument

The test instruments are not displayed on B3's websites or in the Daily Bulletin, and the trades recorded under these codes are not sent to the post-trade systems.

#### 3.2 Order Entry for developers and vendors

- a) **Derivatives Segment:** The quotes for the test instruments are sent to vendors that use FIX and SBE protocols.
- b) **Equities Segment:** The quotes for the test instruments are sent to vendors that use FIX and SBE protocols.

### 4. Parameters and rules

- a) The full trading participant and the trading participant must conduct daily morning connectivity tests for the connections relevant to the functioning of their activities, as well as for at least one contingency connection.

- b) Relevant connections will be those that have sent one or more offers in at least 75% of the trading sessions in the previous month.
- c) Contingency connections will be those that have sent one or more offers in less than 75% of the trading sessions in the previous month.
- d) It is the participant's responsibility to choose the test instruments they will use to send buy and sell offers, thereby ensuring the efficiency of the test.
- e) The trading screens provided by B3 and the desk and DMA solutions developed or contracted by the participants must be tested.
- f) Any issues observed during the test must be immediately reported to the Trading Support or the Listed Trading Support of B3's Electronic Trading Division.
- g) It is the participant's responsibility to archive daily information related to the connectivity tests, which may be requested by B3's audit at any time, including for PQQ purposes.
- h) For the desk and DMA solutions developed or contracted by brokers, it is the participant's responsibility to archive daily information related only to the evidence of order execution.
- i) The Electronic Trading Division of B3 may, at its sole discretion, make the connectivity test instruments available during the trading period or after its conclusion if deemed necessary.

## 5. Test script

The test script must be conducted at least once on PUMA Trading System platform.