

Instruments for Connectivity Tests

BM&FBOVESPA has provided specific test instruments (tickers) for market participants, in order for them to execute connectivity tests with its electronic trading systems before the markets open.

The Exchange provides market participants with this validation procedure that covers their internal systems, trading stations and other connectivity channels, in order to allow for the prior identification of any problems that could affect the trading environment.

Market participants can send buy and sell orders, visualize them in their order books, and execute mock trades.

1- Timetable

- BM&F segment: daily from 7:00 a.m. to 7:30 a.m. (São Paulo Time)
- BOVESPA segment: daily from 7:00 a.m. to 8:00 a.m. (São Paulo Time)

2 – Test instruments: Tickers

The instruments for connectivity tests which are available in the BM&FBOVESPA PUMA Trading System for use in the BM&F segment are as follows:

Instrument's Ticker	Matching Engine	Market Data Channel
TF0Z99	03	10
TF1Z99	04	1
TF2Z99	04	2
TF3Z99	05	3
TF4Z99	05	4
TF5Z99	01	5
TF6Z99	01	6
TF7Z99	02	7
TF8Z99	02	8
TF9Z99	06	9

The instruments for connectivity tests which are available in the BM&FBOVESPA PUMA Trading System for use in the BOVESPA segment are as follows:

Instrument's Ticker	Matching Engine	Market Data Channel
TF473	04	57
TF483	04	58
TF493	05	57
TF503	05	58
TF513	01	51
TF523	01	52
TF533	02	53
TF543	02	54
TF553	06	55
TF563	06	56
TF573	03	57
TF583	03	58
TF593	03	59
TF603	05	60
TF623	05	62

The instruments for connectivity tests which are available for use in the in the Mega Bolsa system (BOVESPA segment) are as follows:

Instrument's ticker	Matching Engine
TT013	01
TT023	02
TT033	03
TT043	04

3 – Integration with other systems

a) The test instruments do not appear on the BM&FBOVESPA websites and in its Daily Bulletin (Boletim Diário), and the mock trades using the tickers listed above are not submitted to the post-trading systems;

b) Messages sent to vendors:

- BM&F segment: The quotations of the test instruments will only be sent to the vendors that use the FIX protocol

- BOVESPA segment: The quotations of the test instruments will be sent to the vendors that use the FIX and RLC protocols.

4 – General Rules

a) For a test to be effective, participants must submit buy and sell orders for each of the test instruments listed above.

b) The tests should cover the trading screens supplied by the Exchange as well as the trading desk and DMA solutions developed in house or commissioned from outside vendors.

c) The test instruments must not be used to test system performance at any time.

d) Eventual problems observed during the tests must be reported immediately to the BM&FBOVESPA Operations Department.

e) The participant is responsible for daily archiving of information in regard to the connectivity tests, which may be requested at any time by BM&FBOVESPA's auditors for verification and for the purposes of the Operational Qualification Program (PQO).

f) In the case of trading desk and DMA solutions developed in house or purchased from vendors, participants are responsible for daily archiving only of the information relating to evidence of order execution.

g) The BM&FBOVESPA Operations Department may, at its exclusive discretion, make the test instruments available during the trading period or after the close of trading, if it deems it necessary.

5 - Connectivity test script

The test guide must be executed at least once for each trading system (BM&FBOVESPA PUMA Trading System and Mega Bolsa).
