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SERVICE HOTLINE

REFERENCE NUMBER: 224/2016

21 October 2016

MANDATORY JSE CLIENT FACING REMOTE DISASTER RECOVERY (DR) SITE TEST – 5 and 6 NOVEMBER 2016

Users are advised of their participation that is required in the mandatory JSE Client Facing Remote Disaster Recovery (DR) Site test on 5 and 6 November 2016.

The tables below stipulate the participation required and the scope of the test. In addition, End of Day Dissemination subscribers (BDA Dissemination and Information Subscribers) are advised to please download their Production end of day files prior to 08h00 on Saturday, 5 November 2016; alternatively files can be downloaded from after 14h00 on Sunday 06 November 2016. The tables below stipulate the participation required and the scope of the test.

Test Participation and High Level Test Schedule:

Market Participants Mandatory Testing
<ul style="list-style-type: none">Equity Market - Trading connectivity logonEquity Derivatives Market - Trading connectivity logon*Commodity Derivatives Market - Trading connectivity logon*Interest Rate and Currency Market - Trading connectivity logon*Information Subscribers – Processing and re- requesting of missed multicast data <p><i>* Members of the Derivatives Market that do not have connectivity to the JSE remote Disaster Recovery site are required to make special arrangements with the JSE</i></p>

Market Participants Optional Testing
<ul style="list-style-type: none">Equity Market - BDA Connectivity and enquiry functionsEquity Market - ECS connectivity and view deals and settlement ordersClearing Members - connectivity and perform downloads and verify balances

The technical connectivity is to be conducted from **Clients environment** to **JSE Remote DR Site**.

Please ensure that you **verify your setup with your Network Service Provider (NSP) or Shared Infrastructure Provider (SIP) prior** to the DR test and arrange for the necessary support.

NB Please Note that any BDA updates will not be rolled back so only enquiry testing is to be carried out

Contact Details

Please email the details of your key contact (name, surname, email address and cell phone number) to CustomerSupport@jse.co.za by no later than 12h00 on Friday, **28 October 2016**. This will ensure that you receive the necessary communication throughout the test.

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Market / Service:

- Equity Market
- Bond Derivatives Market
- Equity Derivatives Market
- Interest Rate Derivatives Market
- Currency Derivatives Market
- Commodity Derivatives Market

Environment(s):

Production

Additional Information:

If you have any queries about this announcement, please contact +27 11 520 7777 or customersupport@jse.co.za

Issued By:

Soraya Seedat
Senior Trading Officer
Trading and Market Services

#	Test timeline	Client testing requirement
1.	Saturday 05 November 2016 Prior to 8am	<ul style="list-style-type: none"> • Clients to download Friday's End of Day files
2.	Saturday 05 November 2016 11h00 – 12h30	<ul style="list-style-type: none"> • JSE Network fail over to the JSE Remote DR Site i.e. shutdown of JSE Production Network. • <u>Where required</u>, clients to manually fail over their own Production Network links to the JSE Remote DR site.
3.	Saturday 05 November 2016 13h00 – 14h00	System Online <ul style="list-style-type: none"> • Clients to conduct connectivity tests to the JSE Remote DR site and; • Login to the Equity, Equity Derivatives, Commodity Derivatives, Interest Rate and Currency Derivatives and Bond Derivatives Markets. • Clients to notify Customer Support once they are on-site and again, when all testing has been completed.
4.	Saturday 05 November 2016 14h00 - 17h00	Equity Market Trading and Information Service: <ul style="list-style-type: none"> • <u>Production source IP addresses</u> for the Primary Feed only will be used to connect to the JSE Remote DR site. The Secondary Feed is not available via the JSE Remote DR site. • Clients to connect and login to the Equity Market Trading Gateways and Market Data Recovery Gateways. • Instruments will move into the default trading session (Continuous Trading) that is applicable on a Normal Trading Day at the time of the test. • The order book will be empty at the start of the test, as per DR procedure. • Notification of order cancellations generated as a result of the DR failover is NOT published to the market. • Clients will need to perform an Own Order Book Download (OOBD) to get the latest status of their orders. • Confirm the flow of multicast data for all Market Data services that clients subscribe to. • Recover multicast messages published in the morning. Derivative Markets Trading and Deal Management: <ul style="list-style-type: none"> • Equity Derivatives, Commodity Derivatives, Interest Rate and Currency Derivatives markets will be available for testing. • The trading system will be in a Market Online/ Download Only state at the start of the test. • The ALSI and ALMI contracts will be placed in a 5 minute Auction Call session from 14h00- 14h05. (Any changes to the schedule will be communicated to clients). • All other contracts will transition directly into the Continuous Trading session. • Information subscribers may also connect and subscribe to data. • Clients are advised to perform deal management functions during the test.

Optional Test Requirements for Trading Members and Information Subscribers:

Optional DR Test Activity	Trading Member				Information Subscriber
	EQM	EDM	IRC	CDM	EQM
Submit minimum ONE order per member	X	X	X	X	
Submit minimum ONE reported trade per member	X	X	X		
Perform Deal Management functions e.g. Allocation, Assigns e.t.c	X	X	X	X	
OOBD and OTBD	X				
Re-request login of MDGs	X				X
Verify receipt of SENS Announcement	X				X
Confirm download of Friday nights EOD files.					X

Expectation for Clearing Members:

- Clearing members connect to the JSE DR site and prove connectivity.
- Download the balancing from the previous EOD.

Clients to login to the following applications:

- **Information Delivery Portal (IDP)**
Clients to connect and login to the IDP Service and download their files as at Friday, 04 November 2016.
- **Internet**
Clients to connect to the JSE Market Communication page <https://www.jse.co.za/services/technologies/market-communications> to test connectivity and check the overall test progress.

5.	Saturday 05 November 2016 17h30 through to Sunday 06 November 2016 10h00	<ul style="list-style-type: none"> • JSE to fail the JSE Network and services back to the JSE Production site. • No participation required from clients during this period. • Where required, clients to manually fail over their own Production Network links back to the JSE Production site and cleanup all test data published during the test.
6.	Sunday 06 November 2016 10h00 - 12h00	<p>Clients to notify Customer Support once they are on site and once all testing is completed.</p> <ul style="list-style-type: none"> • Clients to prove connectivity back to the JSE Production services for Equity Trading and Information, Nutron (markets will be in download state) and IDP and JSE website. • Clearing Members are required to: <ul style="list-style-type: none"> - Clearing members connect to the JSE Production site and prove connectivity. - Download the balancing from EOD on Friday, 04th November 2016.

- Connectivity to JSE Colocation services.
- Login to IDP to download a file that clients subscribe to.
- Clean up all test data published during the test to ensure business readiness for Monday, if not already conducted on Saturday.

NOTE: Should clients encounter any issues please contact **Customer Support on +27 11 520 7777**