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SERVICE HOTLINE

REFERENCE NUMBER: 237/2020

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NON-MANDATORY JSE MARKET FACING DISASTER RECOVERY & BUSINESS CONTINUITY TEST – 12 AND 13 DECEMBER 2020

Users are requested to participate in the JSE Market Facing Disaster Recovery and Business Continuity test on 12 and 13 December 2020.

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, 12 December 2020; alternatively files can be downloaded from after 14h00 on Sunday 13 December 2020. The tables below stipulate the participation required and the scope of the test.

Test Participation and High Level Test Schedule:

Market Participants 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*Bonds Market – Trading connectivity logon*Information Subscribers – Processing and re- requesting of missed multicast dataReal Time Clearing users to login and prove data subscriptions and data downloads <p><i>* Members of the Derivatives Market that do not have connectivity to the JSE remote Disaster Recovery site are requested to please advise the JSE (CustomerSupport@jse.co.za) for noting purposes.</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 production environment](#) to [JSE Disaster Recovery \(DR\) Site](#).

NB: Please ensure the following:

- Verify your setup with your Network Service Provider (NSP) or Shared Infrastructure Provider (SIP) prior to the Resilience (DR) test.
- Arrange for the necessary support and have network engineers available for assistance.
- Ensure that when connecting to the JSE Disaster Recovery (DR) Site that you shut all production links during this test.

Market / Service:

All Markets

Environment(s):

Production

Additional Information:

If you have any queries about this announcement, please contact the Client Service Centre (CSC) on +27 11 520 7777 or e-mail CustomerSupport@jse.co.za

Issued By:

Nicola Comminos
Chief Risk Officer
Enterprise Risk Management

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

Contact Details

Clients that will be available for participating are requested to 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, **4 December 2020**. This will ensure that you receive the necessary communication throughout the test.

#	Test timeline	Client testing requirement
1.	Saturday 12 December 2020 Prior to 8am	<ul style="list-style-type: none"> Clients to download Friday's End of Day files
2.	Saturday 12 December 2020 11h00 – 12h30	<ul style="list-style-type: none"> JSE Network fail over to the JSE Disaster Recovery (DR) Site i.e. shutdown of JSE Production Network. Where required, clients to manually fail over their own Production Network links to the JSE Disaster Recovery (DR) site.
3.	Saturday 12 December 2020 13h00 – 14h00	System Online <ul style="list-style-type: none"> Clients to conduct connectivity tests to the JSE Disaster Recovery (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 12 December 2020 14h00 - 17h00	Equity Market Trading and Information Service: <ul style="list-style-type: none"> Production source IP addresses for the Primary Feed only will be used to connect to the JSE Disaster Recovery (DR) site. The Secondary Feed is not available via the JSE Disaster Recovery (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 Disaster Recovery (DR) test 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. All other contracts will transition directly into the Continuous Trading session. Information subscribers may also connect and subscribe to data. Confirm the flow of multicast data for all Market Data services that clients subscribe to. Recover multicast messages published in the morning. Clients are advised to perform deal management functions during the test.

Optional Test Requirements for Trading Members and Information Subscribers:

	Trading Member				Information Subscriber
Optional DR Test Activity	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 Disaster Recovery (DR) site and prove connectivity.
- For RTC markets prove connectivity and data subscriptions and downloads.
- For NUTRON markets prove connectivity and data downloads.

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, 11 December 2020.

- **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 12 December 2020 17h30 - Sunday 13 December 2020 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 13 December 2020 10h00 - 12h00	<p>Clients to notify the Client Service Centre (CSC) 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. • RTC will not be available for client testing however all necessary health checks will be conducted by the JSE. • Clearing Members are required to: <ul style="list-style-type: none"> - Connect to the JSE Production site and prove connectivity. - Download the balancing from EOD on Friday, 11 December 2020. • 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. <p>NOTE: Should clients encounter any issues please contact the Client Service Centre (CSC) on +27 11 520 7777.</p>