

# LIVE CONNECTIVITY TEST (LCON) PROCESS

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## REFERENCES

Document	Author	Version	Issue date

## VERSION CONTROL

Version	Author	Date	Reason for changes
1.0.1	Ntutukho Shoba	2016-02-03	Document creation
1.0.2	Nasheen Sharma / Vikesh Ramdhani	2016-02-04	Updates following QA
2.0	Nasheen Sharma/Grace Brown	2016-03-15	Updates following QA, taking into account feedback from internal forum.
2.1	Nasheen Sharma	2016-06-13	Updated the requirements for a supported vs unsupported LCON.

## 1. EXECUTIVE SUMMARY

The JSE CSC strives to provide clients with excellent service when providing business, application, functional and technical support.

## 2. PURPOSE OF THIS DOCUMENT

The purpose of this document is to define and communicate the LCON process, details levels of support and distinguish between supported and unsupported tests. This document is a living document and stakeholders will be informed of changes or updates as required.

## 3. GLOSSARY OF TERMS

Term	Description
<b>LCON</b>	Live Connectivity Test
<b>JSA</b>	JSE Services Agreement
<b>COMP ID</b>	Customer Interface ID
<b>OORD</b>	Own Order Book Download
<b>OTBD</b>	Own Trades Book Download
<b>CSC</b>	Client Service Centre
<b>IP</b>	Internet protocol

## 4. REASON FOR PERFORMING A LIVE CONNECTIVITY TEST (LCON)

An LCON is required when clients perform infrastructure related changes that will impact their connectivity to the different JSE Market/s. An LCON is also required for any new/changes to enablement/s.

LCON's are mandatory as stated in the JSE Services Agreement (JSA) when any of the above mentioned changes are made by a client.

## 5. SUPPORTED VS UNSUPPORTED LIVE CONNECTIVITY TEST

Types of LCON are depicted below:

LCON Scenario	Type of Support	Description
New Comp ID & New IP Addition	Supported	Refers to a newly created comp ID with new IP addresses provisioned.
Existing Comp ID & New IP Addition	Supported	Refers to an existing Comp ID with new IP addresses provisioned.
Network Supported Changes	Supported	Refers to client changes being made which require the support of JSE networks.
New Trading Firm / Information Subscriber	Supported/ Unsupported	A new trading or data client who is provisioned on an enablement and network perspective. Support will be provided upon client request.
New Trader Group	Unsupported	An existing client who requires a new trader group to be provisioned.
New Software	Unsupported	An existing client who will now utilise new trading or market data software and wishes to conduct a live test prior to going live.
New Comp ID & Existing IP	Unsupported	Refers to a newly created Comp ID with existing IP addressing (no network involvement).
Existing Comp ID & Network Provisioned IP	Unsupported	Refers to a new IP addition which has already been provisioned from a network perspective, to an existing Comp ID.
Client Hardware Changes	Unsupported	Client undergoes specific hardware changes on their end which has no impact to JSE configurations, but who wishes to conduct a live test.
Client Infrastructure Changes	Unsupported	Client undergoes specific infrastructure changes on their end which has no impact to JSE configurations, but who wishes to conduct a live test.
Increased Comp ID Rate	No Test Requirement	Client wishes an increase in their Comp ID message input rate
Enable Drop Copy Functionality	Unsupported	Provision the drop copy functionality on an existing Drop Copy Comp ID, for order copies from an existing trading (Native / Fix) Comp ID.

This section outlines the differences between a supported and unsupported Live Connectivity Test.

## 5.1. Supported Live Connectivity Test

- Clients are required to provide the necessary details for the LCON e.g. Comp-Id, IP address
- Performed on Thursday between 18:00 -20:00, unless the aforementioned day is a public holiday. If a Thursday falls on a public holiday then the LCON will be conducted on the business day before the Thursday.
- The JSE requires a minimum of 72 hours' notice for the test to be scheduled.
- The JSE requires a minimum of 48 hours' notice for a test to be cancelled.
- The test will be supported by both a JSE Client Services Analyst and Network Engineer.
- The JSE Client Services Analyst will contact the designated contact on the evening of the LCON.
- Clients are required to complete requirements as per Section 6 below for the test to be successful.
- A Client Service Analyst will confirm on the same evening if the test is successful.
- If the Live Connectivity Test is successful, the enablement(s) will be live for trading.
- If the Live Connectivity Test is unsuccessful, the enablement(s) will need to be re-booked for another LCON.
- Changes to enablement's or new enablement's are only updated/loaded on the trading engine after 18:15 which is when off-book trading has ended.

## 5.2. Unsupported Live Connectivity Test

- Clients are required to provide the necessary details for the LCON e.g. Comp-Id, IP address.
- Conducted on Monday to Friday from 06:30 to 19:00.
- LCON's will be conducted on business and allocated Participant Test Weekend's (PTW). PTW's are conducted on a Saturday.
- The JSE requires a minimum of 24 hours' notice for the test to be scheduled.
- There will be limited support from the JSE during the LCON.
- The support provided will be limited to a password reset and unlocking of a Comp-Id up until 19:00 on the day. Clients will need to contact +27 11 520 7777 if assistance is required.
- Clients are required to complete the requirements as per Section 6 below for the test to be successful.
- Changes to enablement's or new enablement's are only updated/loaded on the trading engine after 18:15 which is when off-book trading has ended.

## 6. LCON Requirements per Gateway

- Requirements which are noted as non-mandatory requirements are suggested steps for clients to test.

### 6.1. NATIVE/FIX TRADING GATEWAY/S

- Establish a successful login with the correct IP and Comp ID.
- Submit an order (Non-Mandatory Requirement)
- Establish a successful log-off. (Non-Mandatory Requirement)

### 6.2. DROP COPY GATEWAY

- Establish a successful login with the correct IP and Comp ID.
- Submit an Open Order Download request. (Non-Mandatory Requirement)
- Establish a successful log-off. (Non-Mandatory Requirement)

### 6.3. POST TRADE GATEWAY

- Establish a successful login with the correct IP and Comp ID.
- Clients need to submit a Trade Download Request or Trade Report. (Non-Mandatory Requirement)
- Establish a successful log-off. (Non-Mandatory Requirement)

### 6.4. MARKET DATA GATEWAY/S (MITCH, LEVEL 1 BBO, INDICES, SENS)

- Establish a successful login with the correct IP and Comp ID to either the Replay or Recovery channel, dependent on the gateway being tested.
- Submit a request for messages on either the Replay or Recovery Channel.
- Client will need to confirm receipt of Multicast on the channel/s they subscribe too.
- Establish a successful log-off from either the Replay or Recovery channel, dependent on the gateway.