



To: All members and other interested parties

Ref: 21/165

Classification: Technical Trading

Date: 06 September 2021

Subject: **LMESELECT DISASTER RECOVERY TEST WITH TRADE EXECUTION ON 23 OCTOBER 2021**

Summary

1. This notice (the “**Notice**”) advises members and other market participants of the planned LMEselect Disaster Recovery (“DR”) test in respect of Order and Trade entry that is scheduled for Saturday 23 October 2021.

Background

2. As part of the LME’s commitment to provide a robust and resilient electronic trading platform, it is important for the LME to perform DR tests, which include testing trade execution. This is to ensure that, in the event of a major outage of the primary LMEselect application services, all participants can successfully failover to the secondary services to swiftly recommence their normal usage of LMEselect.
3. In order to confirm that members and other participants can connect to LMEselect in the alternative data centre and are able to enter orders and execute trades, the LME is scheduling a DR test with order and trade execution functionality available on **Saturday 23 October 2021**.
4. In order to limit complications with downstream systems, the Algo Test Environment, which is part of the production infrastructure, will be used to conduct order entry tests using the Algo Test products (XB and XU).
5. The purpose of this test is to validate that, following an LME datacentre failover, all LMEselect participants can connect to the secondary instance of LMEselect and for members to validate their ability to place, manage and execute electronic orders.
6. The testing of electronic trade executions will also become part of the full data centre failover test from next year.

Disaster Recovery Test and Trade Execution Schedule

7. On **Saturday 23 October 2021**, the **LMEselect and LMEselectMD** production services will be switched from primary data centre (“DC 1”) to secondary data centre (“DC 2”), with a two hour test window available (details below) for participants to connect to the Algo Test market in DC 2 only, with trade execution only allowed on the Algo Test products (XB and XU). Please note both LMEselect and LMEselectMD production services will be running the business date of Saturday 23 October 2021.
 - Base metal look alike (XB)
 - Precious metal look alike (XU)
8. The order entry for above products and all underlying instruments related to those products will be available both via LMEselect v9 trading client GUI and FIX API. Please note that standard LMEselect v9 Trading GUI and FIX API users do not have access to the Algo Test products. Participants will need to



connect LMEselect GUI and FIX API applications to the Algo Test environment IP Address and Ports using different user credentials.

9. Below are Fully Qualified Domain Name (FQDN) details for the Algo Test market in the production environment. Details of the necessary IP addresses and Ports for both data centres (DC 1 and DC 2) can be found in the latest LME Systems Connectivity Guide, which is available on the LME website <https://www.lme.com/en/Trading/Systems> (login details required).

Service Type	System – Protocol	Fully Qualified Domain Name (FQDN)
Trading Client GUI	LMEselect Algo Test – GUI	algotax.select.prd.lmexgw.com
FIX Order Entry	LMEselect Algo Test – FSOE	algotax.select.prd.lmexgw.com
FIX Market Data (LMEselectMD)	LMEselect Algo Test – FSMDF	algotax.select.prd.lmexgw.com
FIX Drop Copy	LMEselect Algo Test – FSDC	algotax.select.prd.lmexgw.com
FIX Credit Limit (PTRM)	LMEselect Algo Test – FSCL	algotax.select.prd.lmexgw.com

10. While order entry, order modification and cancellation will be possible on the Algo Test products during the test window, trade information will **NOT** flow to LMEsmart, LMEmercury and other downstream systems.
11. Participants wishing to test market data for the Algo Test products will need to connect to the Algo Test LMEselectMD service (LMEselect Algo Test – FSMDF) as the market data for the Algo Test products will not be available via LMEsource (the LME's multicast market data platform). Please note that LMEsource service is not part of this test.
12. Following the test window in DC 2, **LMEselect and LMEselectMD** production services will be migrated back to DC 1 on **Saturday 23 October 2021** and a further one hour connectivity test window will be provided to allow all participants to test their connectivity again in readiness for start of trading on Monday 25 October 2021. Please note that trade execution will **NOT** be allowed during this window and connectivity will be to the normal production LMEselect and LMEselectMD IP Addresses and Ports in DC.
13. The test window in both DC 2 and DC 1 will be available (in British Summer Time) according to the following schedule:
- Start of trade execution test in production DC 2 10:00 BST
 - End of trade execution test in production DC 2 12:00 BST
 - Start of connectivity test in production DC 1 14:00 BST
 - End of connectivity test in production DC 1 15:00 BST
14. Both test windows will be fully supported by the LME's Trading Operations team who will be on hand to assist during the testing process. Any questions during the tests should be sent via email to tradingoperations@lme.com.
15. Please note that the timing of above connectivity windows is estimated and there may be delays if the LME experiences any unforeseen technical issues. All participants will be kept updated of any such issues via email communication.

Required Action and Contact Details

16. It is strongly recommended by the LME that all participants connecting to LMEselect services participate in the weekend testing on Saturday 23 October as this is seen as an essential part of the industry's disaster recovery readiness. The LME kindly requests all participants prioritise this testing opportunity and treat it with the utmost importance.
17. Members and other market participants requiring login credentials or additional information on connectivity for the Algo Test market should contact Trading Operations team at tradingoperations@lme.com.
18. It is strongly advised that participants test their connectivity to the Algo Test market in production environment prior to the test weekend on 23 October 2021.



19. Participants should ensure that they have LMEselect Algo Test environment IP addresses of both data centres permissioned within their firewalls and can connect to both data centres. For the avoidance of doubt, participants using the LME Domain Name Service (DNS) and utilising the Fully Qualified Domain Name (FQDN) do not need to make any changes on the day providing firewall permissions allow for access to both data centres.
20. Members and other market participants are requested to **confirm and send contact details** of the relevant teams/persons that will be participating in the testing window to rm@lme.com by no later than 8 October 2021.
21. Any queries regarding this Notice should be directed to LME Technical Account Management team at tam@lme.com.

Abhinav Jain
Senior Technical Account Manager

cc: Board directors