香港交易所設備託管服務有限公司
(香港交易及結算所有限公司集團全資附屬成員機構)

HKEX HOSTING SERVICES LIMITED
(A wholly-owned member of the Hong Kong Exchanges and Clearing Limited Group)

客戶通告 SUBSCRIBER NOTICE

Subject: Network Equipment Replacement for HSN and NTP Services

Enquiry: HKEX Hosting Service Desk Hotline

Tel: (852) 2211 6080 or Email: hsservicedesk@hkex.com.hk

To: All Subscribers

Following the successful replacement of firewalls and network switches for Hosting Services Testing Network, HKEX Hosting Services ("HKEX-Hosting") is going to replace the firewalls and network switches ("Hardware Replacement") for HKEX Service Network ("HSN") and Timing Service-Network Time Protocol ("NTP") services. In order to ensure a smooth Hardware Replacement, HSN and NTP subscribers are required to participate in the respective HSN Connectivity Test, HSN Readiness Test, HSN Production Cutover Verification Tests and NTP connectivity verification.

The Hardware Replacement in this project is transparent to subscribers with highlights as follows:

- There is no need for subscribers to perform cabling patching in subscriber's rack.
- There is no need to change the network parameters used to connect to HSN and NTP, including IP address and BGP peering parameters.
- All HKEX assigned clients subnets including OTP-C, CSC, HKATS, DCASS, IIS and OMD (including OMD-C, OMD-D & OMD-CC) will remain unchanged.
- All application connectivities including Cash Market, Stock Connect, Derivatives Market, Derivatives Clearing and Market Data are the same as before, during and after the Hardware Replacement.

(1) HSN Firewalls and Network Switches Replacement – Connectivity Test Schedule

Date	Brief Activities
Saturday, 20 July 2019	HSN Connectivity Test

HSN Connectivity Test
HSN subscribers are encouraged to participate in the HSN Connectivity Test to verify their network connectivity with the new firewalls and network switches ("New HSN"). HSN subscribers are also encouraged to take this opportunity to verify the response of their applications under the new HSN environment.

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To verify network connectivity, HKEX will provide a simplified HSN Commissioning Test Plan for subscribers to follow.

After the Connectivity Test, HSN will be fallback to the to-be-replaced firewalls and network switches ("Original HSN"). HSN subscribers are required to verify the connections to ensure proper connectivity. After completion of the Connectivity Test, HSN subscribers should also send the completed test log sheet which is included in the HSN Commissioning Test Plan to HKEX-Hosting.

Further Subscriber Notice with the rundown and the simplified HSN Commissioning Test Plan will be issued at early July 2019.

(2) HSN Firewalls and Network Switches Replacement - Readiness Test and Production Cutover Tentative Schedule

Date (Tentative)	Brief Activities
Saturday, 31 August 2019	HSN Readiness Test
Saturday, 28 September 2019	HSN Production Cutover Phase 1: replace the HSN firewalls
Saturday, 5 October 2019	HSN Production Cutover Phase 2: replace the Primary HSN network switches
Saturday, 12 October 2019	HSN Production Cutover Phase 3: replace the Secondary HSN network switches

Further Subscriber Notice regarding the detailed arrangement of HSN Readiness Test and HSN Production Cutover Verification Tests will be issued closer to the schedule. The brief activities are listed as below:

HSN Readiness Test
HSN subscribers are required to participate in the HSN Readiness Test which allows HSN subscribers to test the infrastructure readiness for Phases 1 to 3 of HSN Production Cutover. HSN subscribers are required to declare the readiness for the Hardware Replacement.

HKEX will provide reference test cases for HSN subscribers to verify trade/order activities via the New HSN.

After the Readiness Test, HSN will be fallback to the Original HSN. HSN subscribers are required to verify the connections to ensure proper connectivity.

HSN Production Cutover Verification Tests
HSN subscribers are required to perform verification test to the New HSN in each phase of the HSN Production Cutover to ensure proper functionality.

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HKEX will provide reference test cases for HSN subscribers to verify trade/order activities after each phase of HSN Production Cutover.

(3) NTP Network Switches Replacement Tentative Schedule

Date (Tentative)	Brief Activities
Saturday, 5 October 2019	Replace NTP network switches – Batch 1
Saturday, 12 October 2019	Replace NTP network switches – Batch 2

NTP subscribers are required to verify the connections to ensure proper connectivity.

Important Reminder

- After the HSN Production Cutover is completed, there will be 2-week stabilisation period. In the unlikely situation where the Hardware Replacement may encounter irreparable incidents, HSN will be fallback to Original HSN. Subscribers are reminded to ensure adequate business continuity and disaster recovery arrangements are in place in relation to HSN (including, where applicable, maintaining alternative means of access to the trading, clearing and settlement systems and/or the market data dissemination systems of the HKEX).

- Due to the Hardware Replacement, new HSN provisioning and HSN reconfiguration services will NOT be offered from the successful completion of HSN Readiness Test to the end of stablisation period, i.e. from 2 September to 25 October 2019 (both dates inclusive), tentatively.

Subscribers are highly recommended to coordinate with your IT teams and/or system vendors for necessary preparation. For any enquiries, please contact the Hosting Service Desk at 2211 6080.

Hosting Services
Information Technology Division

This circular has been issued in the English language with a separate Chinese language translation. If there is any conflict in the circulars between the meaning of Chinese words or terms in the Chinese language version and English words in the English language version, the meaning of the English words shall prevail.