

香港中央結算有限公司

(香港交易及結算所有限公司全資附屬公司)

HONG KONG SECURITIES CLEARING COMPANY LIMITED

(A wholly-owned subsidiary of Hong Kong Exchanges and Clearing Limited)

## 通告 CIRCULAR

Subject: Upgrade of Report Access Platform

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Hong Kong Exchanges and Clearing Limited (“HKEX”) is pleased to announce that the Report Access Platform (“RAP”) will be upgraded in phases starting from December 2024. The objective of this upgrade is to enhance the usability of RAP and provide an even more secure operating environment for both HKEX and Clearing Participants (“CPs”). The rollout plan for the phases is set out as below:

Phase	Scope of Upgrade	Rollout Date	Completion Date
1	RAP for VaR Platform		
	<b>Soft Launch:</b> System upgrade of RAP and selected VaR Platform reports	23 December 2024	7 March 2025 (overall Phase 1)
	<b>Full Launch:</b> All VaR Platform reports	24 February 2025	
2	RAP for CCASS and CCMS	To be announced in Q1/Q2 2025	

### Phase 1

To transit gradually, HKEX will implement a **Soft Launch** for system upgrade of RAP and selected VaR Platform reports (please refer to Appendix 2 of this circular for the list of selected reports) on **Monday, 23 December 2024**. An updated “HKSCC Report Access Platform (RAP) Technical Guide” (“Guide”) is available in [Client Connect](#) through the HKEX Access Management Portal. To assist CPs in assessing the actions required and understanding the key changes of the upgraded RAP, an

“Appendix 1” is attached to this circular for CPs’ reference. CPs are highly recommended to communicate with their IT teams and/or vendors to review their internal systems and make necessary changes to system configuration according to the updated Guide.

HKEX will roll out the **Full Launch** of Phase 1 on **Monday, 24 February 2025**. For the list of VaR Platforms reports to be released in the Full Launch, please refer to Appendix 2 of this circular.

To ensure a smooth transition and to facilitate CPs in checking their readiness to adopt the upgraded RAP, **the existing and the upgraded RAP will operate concurrently from Monday, 23 December 2024 to Friday, 7 March 2025**. After 7 March 2025, the existing RAP will become obsolete. Therefore, CPs need to ensure they can retrieve VaR Platform reports via the upgraded RAP before 7 March 2025.

## **Phase 2**

HKEX targets to launch the Secure File Transfer Protocol (“SFTP”) service as a channel for CPs to retrieve CCASS and CCMS reports. Details will be announced in Q1/Q2 2025.

For any enquiries, please contact our hotline at 2979 7111 or email [clearingPS@hkex.com.hk](mailto:clearingPS@hkex.com.hk).

Irene Lee  
Senior Vice President  
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*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.*

**Important Notes to the upgraded Report Access Platform (“RAP”)**

The upgraded RAP which supports the distribution of selected VaR reports will roll out on Monday, 23 December 2024. The file transfer mechanism and related system / manual report retrieval operations will largely remain the same. RAP will continue, while connectivity and a few settings will be changed, such as new HKEX IP address via SDNet, new key format, new account format, etc.

To facilitate a smooth transition, below are the actions required from CPs and the key changes of the upgraded RAP. For further details, please refer to the updated HKSCC Report Access Platform (RAP) Technical Guide.

**A. Action(s) Required to prepare for Phase 1 of the upgraded RAP from now until 31 December 2024**

1. CPs should inform HKEX of the designated contact points and targeted migration date in the “Upgraded Report Access Platform (RAP) for HKSCC – Phase 1 Survey” event via [Client Connect](#).

**B. Action(s) Required for Phase 1 Soft Launch of the upgraded RAP between 23 December 2024 and 21 February 2025**

1. Ensure successful connection to the upgraded RAP via HKEX’s updated IP address and port (please refer to the Guide for the update IP address and port).
2. Access to the upgraded RAP with new user accounts (i.e. add prefix “C” to existing user accounts), existing Secure Shell (“SSH”) Keys and registered IP addresses. If more than one SSH key has been registered with HKEX for an account, CPs should use the **key with the latest expiration date** to connect to the upgraded RAP.
3. Ensure successful retrieval of selected VaR reports (refer to Appendix 2) through the upgraded RAP.

**C. Action(s) Required for Phase 1 Full Launch of the upgraded RAP between 24 February 2025 and 7 March 2025**

1. Ensure successful retrieval of VaR reports released in Full Launch (refer to Appendix 2).
2. Ensure successful transition from the existing RAP to the upgraded RAP in daily operation.

CPs are required to fully migrate to upgraded RAP before 7 March 2025. The existing RAP will become obsolete and unable to retrieve VaR Platform reports after 7 March 2025.

*Note: If SSH key renewal is required during the period from 23 December 2024 to 7 March 2025, CPs should renew their SSH key with both existing and new IP addresses and ports.*

**D. Key Changes of the upgraded RAP**

Items	Existing Features	Updated Features
<b>Authenticity of RAP: Fingerprint algorithm and format</b>	Fingerprint of SHA-256 (Hex): 2c:96:a4:f0:85:fd:f6:2e:c4:ea:d6:a2:62:b5:af:3e:36:7 2:2e:2b:f8:d6:f5:90:f6:bc:8a:bf:c9:26:e2:b2  Fingerprint of SHA-265 (Base64): LJak8IX99i7E6taiYrWvPjZyLiv41vWQ9ryKv8km4rl=  Fingerprint of MD5 (Hex):	Fingerprint of SHA-256 (Hex): ca:82:3d:60:8b:24:eb:b6:78:b2:d7:8a:ee:2c:34:b9:c1:b 1:3f:9f:9a:1c:78:af:80:37:79:c1:80:b8:33:82  Fingerprint of SHA-265 (Base64): yol9YlSk67Z4steK7iw0ucGxP5+aHHivgDd5wYC4M4I  Fingerprint of MD5 (Hex):

Items	Existing Features		Updated Features	
	35:ce:89:49:73:80:2d:2d:af:6d:de:66:e5:a5:d5:83		83:2b:c1:53:ff:a6:94:88:f5:15:6b:71:78:31:70:b0	
<b>User Accounts Format</b>	e.g. Xnnnnn001 <i>(where Xnnnnn is the Participant ID)</i>		e.g. <u>C</u> Xnnnnn001	
<b>Supported Public Keys Format</b>	HKEX accepts RSA 2048-bit public keys in SSH2 format.		HKEX accepts RSA 2048-bit <u>and 4096 bits public keys</u> in SSH2 format.	
<b>Names of Public Key File</b>	e.g. Xnnnnn001.pub		e.g. <u>C</u> Xnnnnn001.pub	
<b>Folder Structure</b>	<u>File Type</u>	<u>File Location</u>	<u>File Type</u>	<u>File Location</u>
	Common production reports/files	COMMON/yyyymmdd	Market-wide production reports/data files	download/VAR/yyyymmdd
	CP's specific production reports/ files	INBOX/yyyymmdd	CP's specific production reports/data files	
	Risk Parameter Files (RPF01 – RPF04 COMMON) <i>[Only available to RAP users with folder subscription]</i>	RPF/yyyymmdd	Risk Parameter Files (RPF01 – RPF04 COMMON) <i>[Only available to RAP users with folder subscription]</i>	download/RPF_COMMON/yyyymmdd

Items	Existing Features		Updated Features	
	For public key renewal	KEY_MANAGEMENT	For public key renewal	key_management
	\	\	Submission	Not applicable for Cash Clearing Participants
<b>Login Control</b>	Each user account is restricted to a maximum of 5 times login within 5 minutes.		A user account is allowed to log on to one of the designated RAP client workstations at a time. Concurrent login is not allowed.	
<b>Result File of Self-service Renew of Public Keys</b>	<u>Key Renewal Result</u>	<u>File Name</u>	<u>Key Renewal Result</u>	<u>File Name</u>
	Success	Result.YYYYMMDD.Sequence_number.success.txt  File content: Public key information, result, fingerprint and key expiry date  For example: <pre>===== =====</pre>	Success	<original file name>.<timestamp – HHMMSS>.<seq>.rcvd  File content: The Acknowledgement File only contains one line, which is the uploaded public key fingerprint (MD5 hash digits of public key) in format of 16 octets printed as hexadecimal with lowercase letters and separated by colons.

Items	Existing Features		Updated Features																
		<pre> = File name: Xnnnnn001.pub = = Import date: 2023.01.12 = = File size: 477 = ===== Result: Success Fingerprint: MD5:a1:c4:ed:ae:22:fd:45:68:4f:a2:3b:3d:02: a2:28:75 SSH key expiry date: 2025.01.11           </pre>		<p>For example:</p> <pre> 12:f8:7e:78:61:b4:bf:e2:de:24:15:96:4e:d 4:72:53           </pre>															
	Fail	<p>Result.YYYYMMDD.Sequence_number.failed.txt</p> <p>File content: Public key information, result, and failed reason</p> <p>For example:</p> <pre> ===== = File name: Xnnnnn001.pub = = Import date: 2023.01.12 = = File size: 477 = ===== Result: Failed Number of maximum keys 3 reached.           </pre>	Fail	<p>&lt;original file name&gt;.&lt;timestamp – HHMMSS&gt;.&lt;seq&gt;.rej</p> <p>File content:</p> <p>The .rej file is a text file in window text file format (line ends with CR+LF) in format:</p> <table border="1" data-bbox="1541 1134 1939 1225"> <thead> <tr> <th>#</th> <th>Field</th> <th>Type</th> <th>Size</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Reject Code</td> <td>Numeric</td> <td>5</td> <td>Reject code</td> </tr> <tr> <td>2.</td> <td>Reject Message</td> <td>Alphanumeric</td> <td>255</td> <td>Reject Message in English</td> </tr> </tbody> </table>	#	Field	Type	Size	Remarks	1.	Reject Code	Numeric	5	Reject code	2.	Reject Message	Alphanumeric	255	Reject Message in English
#	Field	Type	Size	Remarks															
1.	Reject Code	Numeric	5	Reject code															
2.	Reject Message	Alphanumeric	255	Reject Message in English															

Items	Existing Features	Updated Features
<b>Name of Key Expiration Notification Report</b> (only available when the SSH key expired in coming 14 days)	SSHKeyExpireWarning_<YYYYMMDD>.txt	SSHKeyExpireWarning.txt
<b>Connectivity of RAP</b>	By Domain Name System (DNS) and IP address	By IP Address <b>only</b> . The new IP address and port is provided in the Guide available in <a href="#">Client Connect</a> .



**List of HKSCC Reports Available in Upgraded Report Access Platform (“RAP”) – Phase 1**

Report ID	Report Name	Available Date
DWH0229	Corporate Action Event Report	Soft Launch: 23 December 2024
DWH0305	Series Price Report	
DWH0303	IPO indicator	

**Note:** During the Soft Launch, report availability times are 12:00, 23:30, and 01:30.

Report ID	Report Name	Available Date
RMAMP01	Marginable Position Report	Full Launch: 24 February 2025
RMAMR01	MTM and Margin Requirement Report	
RMAMR03	MTM and Margin Requirement Report (Summary Version)	
DWH0081C	Daily Participant Margin Multiplier Report	
RMAST01	Risk – Stress Testing Report	
RMADF01	Default Fund Requirement Report	
RMCNM01	Risk - Northbound MSTD Requirement Report <i>[Only available to China Connect CPs]</i>	
RMCNM03	Risk - Northbound MSCD Requirement Report <i>[Only available to China Connect CPs]</i>	
RPF01	Initial Margin Risk Parameter File <i>[Only available to RAP users with folder subscription]</i>	
RPF02, RPF03, RPF04	Stress Testing Risk Parameter Files <i>[Only available to RAP users with folder subscription]</i>	
	User Management Audit Trail Report	