Enhancement of CCASS and CCMS Report Download

Migration Guide

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1. Introduction

Hong Kong Exchanges and Clearing Limited (HKEX) is committed to introduce new post-trade features and services through the modernisation programme, Orion Cash Platform ("OCP"). As the first service release, the Secure File Transfer Protocol ("SFTP") service via the Report Access Platform ("RAP") will be enhanced to enable download of Central Clearing and Settlement System ("CCASS") and Common Collateral Management System ("CCMS") reports (the "Enhancement").

To facilitate the Enhancement in Hong Kong Securities and Clearing Limited ("HKSCC"), HKFE Clearing Corporation Limited ("HKCC") and The SEHK Options Clearing House Limited ("SEOCH"), this Migration Guide aims to provide the key information for the below external stakeholders ("Stakeholders") to make necessary preparations:

- Participants of HKSCC other than Investor Participants (i.e. Clearing Agency Participants, Custodian Participants, Direct Clearing Participants, General Clearing Participants, Stock Lender Participants and Stock Pledgee Participants)
- Designated Banks of HKSCC
- HKCC Participants
- SEOCH Participants

2. Objectives

HKEX is dedicated to delivering an advanced solution to CCASS and CCMS report download, aimed at significantly enhancing operational efficiency and reducing the burden of manual processes. The Enhancement facilitates automated processes, heightened security of data transmission and improved the overall usability of RAP. By introducing the transformative solution, HKEX encourages the Stakeholders to optimise workflow and migrate the report download process from the existing channel, CCASS/ CCMS Terminal to RAP. The migration is crucial and <u>compulsory</u> for Stakeholders as HKEX targets to obsolete report download functions of CCASS/ CCMS Terminal in Q4 2025, subject to regulatory approval.

3. Timeline

The key dates of the Enhancement are listed below, Stakeholders should plan accordingly.

Activities	Planned Dates	Deadlines	Remarks
Release of announcement circulars	**27 Mar 2025**	/	Available on HKEX websites
Release of Migration Guide, RAP Technical Guide and Installation Procedures	**27 Mar 2025**	/	Available on HKEX websites & Client Connect
Release of questionnaires	**27 Mar 2025**	**30 May 2025**	Fill in via "Event" section in Client Connect
Online briefing video	**16 Apr 2025**	/	Available on HKEX Website – OCP Webpage
Registration of new RAP accounts for accessing CCASS and CCMS reports	**12 May 2025** *(open for registration)*	**20 Jun 2025**	Refer to section 8 for details.

			For new accounts to be used in the optional Practice Session, the Stakeholders must submit registration requests with sufficient information **on/ before 30 May 2025**. For new accounts to be used upon the rollout, the Stakeholders must submit registration requests with sufficient information **on/ before 20 Jun 2025**.
Practice Session (Optional)	**Mid-Jun 2025** tentatively	**Late May 2025** tentatively (enrollment)	To be announced in due course.
Rollout of CCASS and CCMS report download via RAP	**Mid-to-late Jul 2025** tentatively	/	Subject to regulatory approval. To be announced in due course.
Obsolescence of report download functions in CCASS/ CCMS Terminal	**By the end of Oct 2025** tentatively	/	Subject to regulatory approval. To be announced in due course.

4. Preparation Tasks

To prepare for the Enhancement, the Stakeholders should ensure the tasks in the below checklist have been completed:

Items to be Checked	✓
1. Read and understand this Migration Guide together with related circulars and technical documents thoroughly.	
2. Watch the online briefing video of the Enhancement that will be available starting from 16 Apr 2025.	
3. Plan the Enhancement. Perform assessment and complete required technical setup/ and operational arrangement with internal/ external parties.	
4. Fill in the questionnaires related to "Enhancement of CCASS and CCMS Report Download" via "Event" section in Client Connect **on/ before 30 May 2025**.	
5. After the rollout of CCASS and CCMS report download via RAP (**mid-to-late Jul 2025** tentatively), test to ensure successful connection to the RAP and retrieval of CCASS and/ or CCMS reports in production.	
6. Full migration of CCASS and/ or CCMS report download from CCASS/ CCMS Terminal to the RAP in daily operation **by the end of Oct 2025** (tentatively).	

5. Scope of Enhancement

5.1. Report Access Platform (RAP)

The RAP will be enhanced with below new folders to enable the Stakeholders to retrieve CCASS and CCMS reports:

HKSCC

"/download/CCASS_<market code>/<yyyymmdd>" for retrieving CCASS reports

"/download/HKSCC_CCMS_<market code>/<yyyymmdd>" for retrieving CCMS reports

HKSCC related Stakeholders should refer to the **HKSCC Report Access Platform (RAP) Technical Guide** for more details.

Report file naming convention is as follows:

Report text:
<Report ID>_<CCASS Part ID/ Bank Code>_<Market Code>_YYYYMMDDHHMMSSssssss.TXT.ZIP

Data image:
<Report ID>_<CCASS Part ID/ Bank Code>_ <Market Code>_YYYYMMDDHHMMSSssssss_IMG.TXT.ZIP

File Name Component	Description
Report ID	Refers to CCASS or CCMS Report ID
CCASS Part ID/ Bank Code	Possible values • Designated Banks: e.g. BNK999 • Participants: e.g. A99999/ B99999/ C99999/ P99999 • "COMMON" if the report is a common report to all the Stakeholders
Market Code	Possible values • GLOB • HKMK • MAMK • SZMK
Date & Time	Report run date: YYYYMMDDHH Report run time: HHMMSSssssss (where "ssssss is the millisecond)
(only applicable to data image)	IMG
File extension	.TXT.ZIP

HKCC and SEOCH

"/download/HKCC_SEOCH_CCMS_<market code>/<yyyymmdd>" for retrieving CCMS reports

HKCC and SEOCH related Stakeholders should refer to the **HKCC and SECOH Report Access Platform (RAP) Technical Guide** for more details.

Report file naming convention is as follows:

Report text:
<Report ID>_<DCASS Customer Code>_<CCMS Part ID>_<Market Code>_YYYYMMDDHHMMSSssssss.TXT.ZIP

Data image:
<Report ID>_<DCASS Customer Code>_<CCMS Part ID>_<Market Code>_YYYYMMDDHHMMSSssssss_IMG.TXT.ZIP

File Name Component	Description
Report ID	Refers to CCMS Report ID
DCASS Customer Code	Possible values: • DCASS Customer Code: e.g. CABC • "COMMON" if the report is a common report to all the Stakeholders
CCMS Part ID	Possible values: • CCMS Part ID: e.g. HKABC1/ HKABC2 (This component is not applicable if the report is a common report to all the Stakeholders)
Market Code	GLOB
Date & Time	Report run date: YYYYMMDDHH Report run time: HHMMSSssssss (where "ssssss is the millisecond)
(only applicable to data image)	IMG
File extension	.TXT.ZIP

Notes:

- *Through the Enhancement, HKCC and SEOCH will change the official name of Report Retrieval Solution to Report Access Platform (RAP).*
- *<market code> can be GLOB/ HKMK/ MAMK/ SZMK, the Stakeholders are advised to refer to* **CCASS Terminal User Guide** *or* **CCMS Terminal User Guide** *for further information related to the market code.*
- *<yyyymmdd> in the report folder refers to the calendar day of RAP to generate the sub-folder.*
- *Reports are formatted into zip files and the files should be decompressed to extract the reports.*

In alignment with the increasing usability of RAP and to allow flexibility in internal access control of the Stakeholders, the RAP is enhanced with:

1. The configuration of types of reports or Data files that an RAP user account can access.

For the Participants of HKSCC other than Investor Participants, they can request the RAP user accounts to be configured with access to:

- CCASS, CCMS and VaR Platform (if applicable) reports
- CCASS and CCMS reports
- VaR Platform (if applicable) reports only

CCASS reports are the only type of reports that are applicable to the Designated Banks of HKSCC, therefore, no selection of report access is needed.

For HKCC and SEOCH Participants, they can request the RAP user accounts to be configured with access to:

- CCMS and DCASS reports
- CCMS reports only
- DCASS reports only

2. Increase the allowed number of RAP user accounts and workstations per RAP account that the Stakeholders can apply:

Identity of the Stakeholders	Allowed no. of RAP user accounts (including the existing accounts)	Allowed no. of workstations per RAP user accounts (including the existing workstations)
Participants of HKSCC other than Investor Participants	3	4
Designated Banks of HKSCC	2	
HKCC and SEOCH Participants	4	

The Stakeholders can refer to Section 7 – "Preparation of the Existing RAP User Accounts for the Enhancement" for raising request to maintain existing RAP user accounts (e.g. to update the type of report access, provide additional workstations etc.) for preparing the Enhancement and Section 8 – "New or Additional RAP User Account Registration" for the guideline to apply for new/ additional RAP user accounts.

5.2.   CCASS/ CCMS Terminal

As previously mentioned in Section 2, one of the objectives is to obsolete report download functions in CCASS/ CCMS Terminal. After the obsolescence (targeted **by the end of Oct 2025** tentatively), the Stakeholders will not be able to access the functions below in CCASS/ CCMS Terminal:

1. Report Download
2. Report Profile Maintenance
3. Overnight Report Download

6. Service Hours of CCASS and CCMS Reports via RAP

RAP will support the Stakeholders with flexible and extended schedule in report retrieval. RAP will operate from Monday to Friday, between 07:15 – 24:00 (including public holidays on weekdays) and on Saturday, between 07:15 – 13:00 (excluding public holidays) for the Stakeholders to access CCASS and CCMS reports.

The Stakeholders can access CCASS and CCMS reports for the past 10 calendar days from the date the report is available in RAP.

7. Preparation of the Existing RAP User Accounts for the Enhancement

To facilitate the Stakeholders in migrating report retrieval from CCASS/ CCMS Terminal to RAP with minimal effort on administrative process, HKEX will enhance all existing RAP user accounts with the new CCASS and CCMS report folders (specified in Section 5.1). The Stakeholders can start to retrieve CCASS and CCMS reports with the existing RAP user accounts upon the rollout of the Enhancement. The stakeholders are not required to submit maintenance request form to HKEX for enabling the existing RAP user accounts for CCASS and CCMS report retrieval. However, if the Stakeholders have a different preference and do not wish the existing RAP user accounts to be enabled for CCASS and/ or CCMS report retrieval, the Stakeholders should return the feedback through the questionnaires related to "Enhancement of CCASS and CCMS Report Download" via "Event" section in Client Connect **on/ before 30 May 2025**.

As mentioned in Section 5.2, RAP will be enhanced to support configuration of different types of report access and additional workstations per account, the Stakeholders may submit maintenance requests through the **e-Service, TECHS 8** in Client Connect **starting from 12 May 2025**. For maintenance requests that are intended to be effective before the optional Practice Session in **mid-Jun 2025** tentatively, the Stakeholders should submit the maintenance requests with remark "for CCASS and CCMS Reports Practice Session" **on/ before 30 May 2025**. For maintenance requests that are intended to be effective before the rollout of the Enhancement (i.e. the Stakeholders do not plan to participate in the Optional Practice Session) in **mid-to-late Jul 2025** tentatively, the Stakeholders should submit the maintenance requests with remark "for the rollout of CCASS and CCMS Reports Enhancement" **on/ before 20 Jun 2025**.

The Stakeholders are reminded to renew their existing RAP user accounts' Secure Shell (SSH) key before it expires (i.e. every 2 years). Please refer to the **HKSCC Report Access Platform (RAP) Technical Guide** or **HKCC and SEOCH Report Access Platform (RAP) Technical Guide** for detailed instructions of self-service key renewal.

8. New or Additional RAP User Account Registration

If the Stakeholders are new to RAP or require additional RAP user accounts after assessment, the Stakeholders may submit new registration requests through the **e-Service, TECHS 8** in Client Connect **starting from 12 May 2025**, similar to the arrangement of RAP account maintenance requests which mentioned in the last section. For new registration requests that are intended to be effective before the optional Practice Session in **mid-Jun 25** tentatively, the Stakeholders should submit the new registration requests with remark "for CCASS and CCMS

Reports Practice Session" **on/ before 30 May 2025**. For new registration requests that are intended to be effective before the rollout of this Enhancement (i.e. the Stakeholders do not plan to participate in the Optional Practice) in **mid-to-late Jun 2025** tentatively, the Stakeholders should submit the new registration requests with remark "for the rollout of CCASS and CCMS Reports Enhancement" **on/ before 20 Jun 2025**.

For RAP installation and technical setup, the Stakeholders should refer to below documents:

HKSCC

HKSCC CCASS/ VaR Online/ RAP Installation Procedures
HKSCC Report Access Platform (RAP) Technical Guide

HKCC and SEOCH

HKCC and SEOCH CCASS (CCMS) Terminal / RAP Installation Procedures
HKCC and SEOCH Report Access Platform (RAP) Technical Guide

9. Resilience of RAP

RAP is designed to be reliable and resilient to localise hardware or software failures. In case of disastrous system failure, the RAP backup system would be deployed to resume report distribution services.

10. Contact Us

For any enquiries regarding the Enhancement, please contact us through below channels.

HKSCC

Email: clearingPS@hkex.com.hk / Hotline: 2979 7111

HKCC and SEOCH

Email: clearingPSD@hkex.com.hk / Hotline: 2979 7222

11. Frequently Asked Questions

1. Is there any system development/ technical setup required from Participants of HKSCC/ HKCC/ SEOCH to retrieve CCASS and CCMS reports from RAP if they already have RAP user account(s)?

   It is not a must to conduct system development/ technical setup in the Enhancement. Participants of HKSCC/ HKCC/ SEOCH can start to retrieve CCASS and CCMS reports with the existing RAP user accounts upon the rollout of the Enhancement. However, the Participants are suggested to assess and review if any internal system process related to CCASS and CCMS reports that may need to be enhanced to facilitate the daily operation.

2. If the Stakeholders are new to RAP, what are the guidelines for them to setup proper connectivity with RAP?

   The Stakeholders should refer to **HKSCC Report Access Platform (RAP) Technical Guide** or **HKCC and SEOCH Report Access Platform (RAP) Technical Guide** for the guideline of technical setup. Then, communicate with internal IT teams and/ or vendors on the necessary system configuration.

3. The allowed number of RAP user accounts is lower than the number of users in my company that need to retrieve CCASS and CCMS reports from CCASS/CCMS Terminal currently. How to adapt to the Enhancement without impact to daily operation?

   HKEX is progressively moving towards a more advanced information exchange solution and encourages the Stakeholders to adopt machine-to-machine automated workflow. HKEX suggests that the Stakeholders consider centralising report retrieval from HKEX and develop report distribution process within the firm.

4. Can the Stakeholders access RAP using the PCs that are currently connected to CCASS/ CCMS Terminal for downloading CCASS and CCMS reports?

   For HKSCC, the Stakeholders can access RAP using the same PCs that are currently used for downloading CCASS and CCMS reports, provided that the IP addresses of the PCs have been registered with the RAP user accounts. To register or update the IP address, the Stakeholders may submit maintenance requests through the **e-Service, TECHS 8** in Client Connect**.**

   For HKCC and SEOCH, the Stakeholders can access RAP using the same RAP client workstation(s) which have been set up for downloading DCASS reports. If stakeholders of HKCC and SEOCH want to set up additional RAP client workstations to download CCMS reports, they can follow the **HKCC and SEOCH Report Access Platform (RAP) Technical Guide** for technical setup.

12. Related Documents

Document Name	Available Channels
Circulars	• HKEX Website – Circulars and Notices • OCP Webpage
Questionnaires	• "Event" section in Client Connect
HKSCC CCASS/ VaR Online/ RAP Installation Procedures	• "Infrastructure – Clearing – Securities" section in Client Connect • "Infrastructure – Settlement & Depository" section in Client Connect
HKCC and SEOCH CCASS (CCMS) Terminal / RAP Installation Procedures	• "Infrastructure – Listed Derivatives" section in Client Connect
HKSCC Report Access Platform (RAP) Technical Guide	• HKEX Website – Operational Setup for HKSCC Participants • "Infrastructure – Clearing – Securities" section in Client Connect

	• "Infrastructure – Settlement & Depository" section in Client Connect • OCP Webpage
HKCC and SEOCH Report Access Platform (RAP) Technical Guide	• HKEX Website – Operational Setup for HKCC Participants • HKEX Website – Operational Setup for SEOCH Participants • "Infrastructure – Listed Derivatives" section in Client Connect • OCP Webpage
CCASS Terminal User Guide	• "Infrastructure – Clearing – Securities" section in Client Connect • "Infrastructure – Settlement & Depository" section in Client Connect
CCMS Terminal User Guide	• "Infrastructure – Listed Derivatives" section in Client Connect
e-Service TechS 8 (i.e. the e-Service will be updated for changes related to this Enhancement on 12 May 2025)	• "Post Trade – Technical Setup" in Client Connect
User Manual of e-Service TechS 8 (i.e. the user manual will be updated for changes related to this Enhancement on 12 May 2025)	• HKEX Website - Client Connect User Manual – TechS 8
CCASS Form 107 - Registration Form for HKSCC Report Access Platform (RAP) (i.e. the form will be updated for changes related to this Enhancement on 12 May 2025)	• HKEX Website – Operational Setup for HKSCC Participants
DCASS Form 15 - Registration Form for HKCC and SEOCH Report Access Platform (RAP) (i.e. the existing form "Application Form for SFTP User IDs Report Retrieval Solution For Listed Derivatives Market" will be renamed and updated for changes related to this Enhancement on 12 May 2025)	• HKEX Website – Operational Setup for HKCC Participants • HKEX Website – Operational Setup for SEOCH Participants