Information Package
on
the Hong Kong Investor Identification Regime (HKIDR) Market Rehearsals

Version 1.0

Sep 2022

Version History

Version No.	Issue Date	Particulars
1.0	23 September 2022	First published version

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1   Introduction

1.1   Overview

Following the successful completion of the HKIDR End-to-End Test (E2E Test), all Relevant Regulated Intermediaries[1] (RRIs) (including Exchange Participants (EPs) and non-EP RRIs) are required to participate in the HKIDR Market Rehearsals (MR) to ensure that they can (1) submit the BCAN-CID Mapping File and reporting forms (for EPs and non-EP RRIs), and (2) tag BCAN to on-exchange orders and off-exchange trades (for EPs only) after the implementation of the HKIDR.

Date	Time	Test	Objective
15 October 2022	BCAN-CID Mapping File Submission 9:00am – 12:00noon Download BCAN-CID Process Result File and Full Image File 1:00pm - 8:00pm	MR 1 (Both MR 1 and MR 2 are mandatory for all RRIs)	To simulate BCAN-CID Mapping File submission on T-1 day. EPs and non-EP RRIs to validate their system's setup in a production configuration and to perform submission of BCAN-CID Mapping File. Reporting forms submission and order tagging for BCAN will not be covered in this MR 1.
22 October 2022	BCAN-CID Mapping File and Reporting Forms Submission 9:00am – 12:00noon Order Tagging 9:00am - 12:10pm Download BCAN-CID Process Result File and Full Image File 1:00pm - 8:00pm Download Result File for Reporting Forms 5:00pm - 8:00pm	MR 2 (Both MR 1 and MR 2 are mandatory for all RRIs)	A continuation of MR 1 and EPs and non-EP RRIs should validate their system's setup in a production configuration and to perform the followings: (1) For EPs and non-EP RRIs, simulate submission and update of BCAN-CID Mapping File and submission of reporting forms; (2) For EPs, to tag on-exchange orders/off-exchange trades with BCAN and to simulate real-life trading activities (in terms of order input, pattern and volume).

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[1] Relevant Regulated Intermediaries refer to SFC-licensed corporations and registered institutions subject to the HKIDR pursuant to the proposed paragraph 5.6 of the SFC's Code of Conduct for Persons Licensed by or Registered with the SFC as set out in the Appendix C in the SFC's consultation conclusions paper.

| 29 October 2022 | BCAN-CID Mapping File and Reporting Forms Submission

9:00am – 12:00noon

ECP 2.0 Site Failover

9:30am - 10:30am

Order Tagging

9:00am - 12:10pm

Download BCAN-CID Process Result File and Full Image File

1:00pm - 8:00pm

Download Result File for Reporting Forms

5:00pm - 8:00pm | MR 3

(MR 3 is mandatory for those RRIs which have not successfully completed MR 1 and/or MR 2) | EPs and non-EP RRIs to validate their system's setup in a production configuration to perform the followings:

(1) For EPs and non-EP RRIs, to submit BCAN-CID Mapping File and reporting forms;

(2) For EPs, to tag on-exchange orders/off-exchange trades with BCAN and to simulate real-life trading activities (in terms of order input, pattern and volume).

In addition, a site failover scenario on file submission via ECP 2.0 will be arranged during this MR 3. ECP 2.0 will failover to the secondary data center, while OTP-C will NOT be affected during ECP 2.0 site failover. |

It is mandatory for <u>all</u> RRIs to participate in both MR 1 and MR 2, while it is mandatory for RRIs which have NOT successfully completed MR 1 and/or MR 2 to participate in MR 3.

All RRIs must satisfactorily complete the MR to ensure they can submit the BCAN-CID Mapping File and reporting forms (for EPs and non-EP RRIs), and tag BCAN to on-exchange orders and off-exchange trades (for EPs only). EPs and non-EP RRIs are required to pass the E2E Test and MR to demonstrate their readiness to comply with the new arrangements in relation to the HKIDR.

All information in the BCAN-CID Mapping File and reporting forms submitted during the MR should be for testing purposes only. EPs and non-EP RRIs **should not use their clients' real data** during the MR for file submission. All data will be removed after all MRs are completed.

Subject to successful completion of the MR, RRIs' readiness and regulatory approvals, the SFC will announce the launch date for the HKIDR in due course.

1.2 Market Data Arrangement for the HKIDR MR

EPs who have subscribed to any data feed product on HKEX Orion Market Data Platform – Securities Market (OMD-C) can have access to their subscribed OMD-C feed during MR 2 and MR 3.

For EPs receiving market data through Information Vendors (IVs) and Application Service Providers (ASPs), they should check with their IVs and/or ASPs immediately for the required logistics or other necessary arrangement if they plan to receive market data from them during MR 2 and MR 3.

2   Schedule and Activities for the HKIDR MR

2.1   Tasks for RRIs

EP and non-EP RRIs are required to complete the following tasks for the MR:

Task	RRIs Concerned	Deadline / Execution Date	Reference Documents
SFTP Service Registration (Optional)			
1. Register Public Key and IP Address for accessing ECP SFTP Interface (Installation of a SDNet/2 production line is required.)	EPs and non-EP RRIs who will submit files via SFTP	On or before 14 October 2022 (Friday)	HKIDR File Transfer Connectivity Guide
Set up User's Access to ECP 2.0 via Client Connect			
2. Setup user's access to ECP 2.0 in Client Connect prior to MR (Business function EU_ECPHKIDR) There is no need to setup user's access in ECP 2.0 for non-EP RRIs using SFC WINGS accounts	All EPs, and non-EP RRIs using SFTP	On or before 7 October 2022 (Friday)	Appendix D – Quick reference of BCAN-CID Mapping File and Reporting Form Submission
Notification Form for MR			
3. Submit notification form for (i). designation of contact person for the MR (ii). participation of Post Test Verification Session Note 1 after MR (optional)	EPs and non-EP RRIs EPs only	On or before 7 October 2022 (Friday)	Notification Form
Update mobile number and email in the individual WINGS profile			
4. Update the mobile phone and email in the individual WINGS profile and ensure their mobile phone and email are accurate before participating in each MR	EPs and non-EP RRIs who log onto the ECP via the SFC's WINGS platform	Before each MR on 14 October 2022 / 21 October 2022 / 28 October 2022 (Friday)	
MR 1 (mandatory for all RRIs)			
For BCAN-CID Mapping File Submission			
1. Submit BCAN-CID Mapping File. Verify corresponding BCAN-CID Response File	EPs and non-EP RRIs	15 October 2022 (Saturday) 9:00am – 12:00 noon	Appendix A – Activity Rundown

2. Verify BCAN-CID Process Result File and BCAN Full Image File		15 October 2022 (Saturday) 1:00pm - 8:00pm	
MR 2 (mandatory for all RRIs)			
For BCAN-CID Mapping File and Reporting Form Submission			
1. Submit BCAN-CID Mapping File Note 2 and reporting forms. Verify corresponding BCAN-CID Response File	EPs and non-EP RRIs	22 October 2022 (Saturday) 9:00am – 12:00 noon	Appendix B – Activity Rundown
2. Verify BCAN-CID Process Result File and BCAN Full Image File		22 October 2022 (Saturday) 1:00pm - 8:00pm	
3. Retrieve reporting forms result files		22 October 2022 (Saturday) 5:00pm – 8:00pm	
For Order Tagging			
4. Conduct tagging of BCAN for on-exchange orders and off-exchange trades	EPs only	22 October 2022 (Saturday) 9:00am – 12:10pm	Appendix B – Activity Rundown
5. Conduct Post Test Verification Session after MR (optional) Note 1		22 October 2022 (Saturday) 7:00pm - 8:00pm	
For Feedback Form			
6. Return feedback form for MR 1 & MR 2 Note 3	All EP and non-EP RRIs	On or before 24 October 2022 (Monday)	Feedback Form for MR 1 and MR 2
MR 3 (mandatory for those RRIs which have not successfully completed MR 1 and/or MR 2)			
For BCAN-CID Mapping File and Reporting Form Submission			
1. Submit BCAN-CID Mapping File and reporting forms. Verify corresponding response files	EPs and non-EP RRIs	29 October 2022 (Saturday) 9:00am – 12:00noon	Appendix C – Activity Rundown
2. Verify BCAN-CID Process Result File and BCAN Full Image File	EPs and non-EP RRIs	29 October 2022 (Saturday) 1:00pm – 8:00pm	
3. Retrieve reporting forms result files	EPs and non-EP RRIs	29 October 2022 (Saturday) 5:00pm – 8:00pm	
For ECP 2.0 Site Failover			
4. Simulation of site failover scenario for ECP 2.0	EPs and non-EP RRIs	29 October 2022 (Saturday) 9:30am – 10:30am	Appendix C – Activity Rundown
For Order Tagging			
5. Conduct tagging of BCAN for on-exchange orders and off-exchange trades	EPs only	29 October 2022 (Saturday) 9:00am – 12:10pm	Appendix C – Activity Rundown

6. Conduct Post Test Verification Session after MR (optional) Note 1	EPs only	29 October 2022 (Saturday) 7:00pm -8:00pm	
For Feedback Form			
7. Return feedback form for MR 3 Note 3	All EP and non-EP RRIs	On or before 31 October 2022 (Monday)	[Feedback Form for MR 3](#)

Notes:

1. The "Post Test Verification Session after MR" is solely offered for EPs to validate that their BSS have already reinstated for trading with OTP-C/OCG-C properly on the following trading day. Participation is optional and <u>prior registration would be required</u>.

2. If a BCAN-CID Mapping File has already been successfully submitted in MR 1, the RRI should test the submission of an updated BCAN-CID Mapping File (e.g. with update of CID, addition or deletion of records) in MR 2.

3. EPs and non-EP RRIs must return the feedback form for MR 1 and MR 2 to HKEX on or before 6:00pm on 24 October 2022 after MR 2. For EPs and non-EP RRIs which have not successfully completed MR 1 and/or MR 2 and need to complete MR 3, they must return the feedback form for MR 3 to HKEX on or before 6pm on 31 October 2022 after MR 3.

2.2 MR Timetable

The MR aim to provide an opportunity to EPs and non-EP RRIs to simulate their BCAN-CID Mapping File and reporting forms submission via ECP 2.0 Web Interface or ECP 2.0 SFTP Interface and tagging of BCAN for on-exchange orders and off-exchange trades in the trading environment. Details as below:

MR 1 Date: 15 October 2022

Time	Session	EP RRI / Non-EP RRI participation
For BCAN-CID Mapping File Submission		
9:00am – 12:00noon	• Submission of BCAN-CID Mapping File • Verification of BCAN-CID Response File	• EPs and non-EP RRIs
1:00pm – 8:00pm	• Verification of BCAN-CID Process Result File and BCAN Full Image File	

MR 2 Date: 22 October 2022

Time	Session	EP RRI / Non-EP RRI participation
For BCAN-CID Mapping File and Reporting Forms Submission		
9:00am – 12:00noon	• Submission of BCAN-CID Mapping File	• EPs and

Time	Session	
	and reporting forms • Verification of BCAN-CID Response File and response files for reporting forms	non-EP RRIs
1:00pm – 8:00pm	• Verification of BCAN-CID Process Result File and BCAN Full Image File	
5:00pm – 8:00pm	• Retrieval of reporting form result file	
For BCAN Tagging		
9:00am – 9:30am	• Pre-opening Session (tagging BCAN to every on-exchange order and off-exchange trade)	• EPs only
9:30am – 10:45am	• Morning Continuous Trading Session (tagging BCAN to every on-exchange order and off-exchange trade)	
10:45am – 11:00am	• Mid-day Close	
11:00am – 12:00noon	• Afternoon Continuous Trading Session (tagging BCAN to every on-exchange order and off-exchange trade)	
12:00noon – 12:10pm	• Closing Auction Session (tagging BCAN to every on-exchange order and off-exchange trade)	
12:10pm	• Day Close	
12:40pm – 1:30pm	• Download trade file and closing price file via ECP 2.0	
7:00pm – 8:00pm	• Post Test Verification Session after MR (optional and applicable for EP's participation with prior registrations)	

MR 3 Date: 29 October 2022

Time	Session	EP RRI / Non-EP RRI participation
For BCAN-CID Mapping File and Reporting Forms Submission		
9:00am – 9:30am	• Submission of BCAN-CID Mapping File and reporting forms • Verification of BCAN-CID Response File and response files for reporting forms	• EPs and non-EP RRIs
9:30am – 10:30am	• **Simulation of site failover scenario on file submission via ECP 2.0** (no action required by RRIs)	
10:30am – 12:00noon	• For SFTP user only	

	Reconnect SFTP facility at secondary data center via any of following IP addresses: Connection through OCG-C network interface / ECP (non-EP) circuit - 10.2.93.131 Port 18801 - 10.2.93.132 Port 18801 Connection through CCCG network interface - 10.2.145.131 Port 18801 - 10.2.145.132 Port 18801 • For web and SFTP users - Submission of BCAN-CID Mapping File and reporting forms - Retrieval of BCAN-CID Response File and response files for reporting forms	
1:00pm – 8:00pm	• Verification of BCAN-CID Process Result File and BCAN Full Image File	
5:00pm – 8:00pm	• Retrieval of reporting forms result file	
For BCAN Tagging		
9:00am – 9:30am	• Pre-opening Session (tagging BCAN to every on-exchange order and off-exchange trade)	• EPs only
9:30am – 10:45am	• Morning Continuous Trading Session (tagging BCAN to every on-exchange order and off-exchange trade)	
10:45am – 11:00am	• Mid-day Close	
11:00am – 12:00noon	• Afternoon Continuous Trading Session (tagging BCAN to every on-exchange order and off-exchange trade)	
12:00noon – 12:10pm	• Closing Auction Session (tagging BCAN to every on-exchange order and off-exchange trade)	
12:10pm	• Day Close	
12:40pm – 1:30pm	• Download trade file and closing price file via ECP 2.0	
7:00pm – 8:00pm	• Post Test Verification Session after MR (optional and applicable for EP's participation with prior registrations)	

3 Guidelines for the HKIDR MR

EPs and non-EP RRIs are requested to make note of the following important points when they take part in the MR:

Before the MR:

- EPs and non-EP RRIs should have successfully completed the E2E Test prior to their participation in the MR.

- EPs and non-EP RRIs are required to complete the **Notification Form** **and return it to HKEX on or before 7 October 2022** to provide the designated contact person for the MR and (for EPs only) confirm whether they will join Post Test Verification Sessions after MR 2 and MR 3.

- EPs are required to create/ edit user profile in ECP 2.0 to assign business function of "EU_ECPHKIDR" on or before 7 October 2022 so that user can submit the "Notification Form" mentioned above. For accessing ECP 2.0 via SFC WINGS account, pre-setting in ECP 2.0 for submission of "Notification Form" is not required.

- EPs and non-EP RRIs who log onto the ECP via the SFC's WINGS platform should update their mobile phone and email in the individual WINGS profile and ensure their mobile phone and email are accurate before participating in each MR, in order to receive the One-Time-Password (OTP) for authentication on the SFC's WINGS platform.

- For participation of the MR:

  - EPs and non-EP RRIs must ensure that the correct configuration of their systems supporting the HKIDR is activated for the MR and ensure appropriate software (without HKIDR related functions) is reinstated after the MR.

  - EPs must ensure that the correct configuration of BSS software (if needed) supporting the HKIDR is activated before connecting to OTP-C/OCG-C for the MR. In this case, after conducting the MR, EPs must also ensure that appropriate BSS software (without HKIDR related functions) is reinstated in order to ensure no interruption to their trading activities on the following trading day.

- EPs and non-EP RRIs are reminded to back up their production database (including BSS production database) before the MR so that the database can be restored after the test to safeguard data integrity for the following trading day.

Access to the MR:

Accessing ECP 2.0 via Web Interface or SFTP Interface

- EP and non-EP RRIs should refer to the "HKIDR File Transfer Connectivity Guide" about the following areas of the ECP 2.0:

  - ➢ Operation of HKIDR Interface Files Exchange

  - ➢ Access to ECP 2.0 (via ECP Web Interface or ECP SFTP Interface)

  - ➢ Registration of ECP 2.0 SFTP User Account (for ECP 2.0 SFTP Interface access only)

  - ➢ Renewal of Public Keys (for ECP 2.0 SFTP Interface access only)

  - ➢ Network configuration (for ECP 2.0 SFTP Interface access only)

OCG-C

- EPs are required to logon all OCG-C (including Trading and Drop Copy sessions) by using the assigned Comp ID(s) and password "Ab123456" or production password as specified below or in respective activity rundown:

Test Sessions	Password
MR	"Ab123456"
Post Test Verification Session after MR	Production password

During the MR:

- All OCG-C sessions and Drop-Copy sessions (exclude non-production OCG-C and Drop-Copy sessions) will be turned on by HKEX during the MR 2 and MR 3. If EPs request to turn on non-production session during the MR 2 and MR 3, you must submit the weekend testing booking form to HKEX by email to otpc@hkex.com.hk or via Client Connect (https://connect.hkex.com.hk/) before one week of the MR date.

- During the MR 1 to MR 3, EPs and non-EP RRIs are required to simulate real-life files submission activities by submitting BCAN-CID Mapping File and reporting forms and also to verify the relevant response files, the BCAN Full Image File and BCAN-CID Process Result File so as to ensure BCAN registration and reporting forms submission are successfully completed.

- All information in the BCAN-CID Mapping File and reporting forms submitted during the MR should be for testing purposes only. EPs and non-EP RRIs **should not use their clients' real data during the MR on file submission**. All data will be removed after all MRs are completed.

- **The total number of records in BCAN-CID Mapping File to be submitted by each RRI must be less than 20,000 records.**

- The stock database as at the market open on **10 October 2022** will be used for the MR 2 and MR 3.

- During the MR 2 and MR 3, EPs are required to simulate real-life life trading activities by inputting on-exchange orders and off-exchange trades tagged with BCANs.

- EPs are also required to verify their system's compatibility with the two new features of OCG-C (i.e. transaction time in microsecond and provision of an aggressive/passive indicator for auto-matched trades during continuous trading session) in MR 2 and MR 3.

After MR 2 and MR 3:

- Upon completion of the MR, EPs are reminded to log off and terminate all OCG-C sessions, then perform end-of-day procedures and clean up the transaction data (e.g. orders and trades) entered during the test from BSS (if applicable).

- After the MR, EPs are also reminded to clean up the next day requests for testing, if any, to ensure that these testing orders will not be carried forward to the production on the following trading day.

After MR1, MR 2 and MR 3:

- **SFTP public keys submitted for the MR will be carried forward to the production environment when the actual BCAN-CID Mapping File submission service of the HKIDR is launched later. Should RRIs wish to renew their public keys, please repeat the key registration process.**

4   Typhoon/ Extreme Conditions/ Rainstorm Arrangements

When Tropical Storm Warning Signal No. 8 (or above) or Extreme Conditions or Black Rainstorm Warning Signal is hoisted, the following arrangements will apply:

Condition	Arrangement
If either of the warnings is hoisted or to be in force **anytime from 7:00am to 9:00am**	The scheduled activity of the day will be cancelled and will not be resumed for the rest of the day.
If Tropical Storm Warning Signal No. 8 or above or Extreme Conditions is issued **after 9:00am**	The scheduled activity of the day will be terminated 15 minutes thereafter.
If Black Rainstorm Warning is issued after 9:00am	All scheduled activity will continue until completion.

Note:
In any case, all participating RRIs should complete the appropriate day-end work including file/ database backup and restoration, system restoration/ fallback and so on to ensure there will be no interruption on the next trading day.

5 Support Hotline

Should EPs and non-EP RRIs have any questions <u>on the days of the actual MR</u>, they can contact the following Support Hotlines:

	Telephone Number	Email Address	Hotline Support Service Hours
For BSS Support	2840 3351	bsssupport@hkex.com.hk	
For General Enquiry	2840 3626	hkidr@hkex.com.hk	8:30am – 2:00pm
For OMD-C Enquiry	2211 6558	IVSupport@hkex.com.hk	

Note: For enquires related to the downloading of reporting forms result files (available starting from 5pm for MR 2 and MR 3), RRIs can send such enquires to bsssupport@hkex.com.hk (for technical enquiries) and hkidr@hkex.com.hk (for non-technical enquiries) between 5pm to 6pm for further handling.

Appendices

Appendix A – Activity Rundown for HKIDR MR 1 on 15 October 2022

MR 1 is mandatory for all RRIs and aims to simulate BCAN-CID Mapping File submission on T-1 day. EPs and non-EP RRIs should validate their system's setup in a production configuration and to perform submission of BCAN-CID Mapping File. Reporting forms submission and order tagging for BCAN will not be covered in this MR 1.

Time	Activities
14 October 2022 (Friday) – After Market Close	
After 5:00pm	**For EPs and non-EP RRIs** ❑ Ensure the production database of in-house / back-office systems are properly backed-up, if needed.
15 October 2022 (Saturday)	
Submission of BCAN-CID Mapping File	

9:00am – 12:00noon	**For EPs and non-EP RRIs**
	❑ Connect to the ECP 2.0 via
	    ➢ ECP Web Interface (https://ecp2.hkex.com.hk/) with Client Connect user ID or with SFC WINGS account; or
	    ➢ ECP SFTP Interface via SDNet/2 or HSN with Client Connect user ID and private key.
	❑ Submit BCAN-CID Mapping File, a corresponding BCAN-CID Response File will be returned within 10 minutes after submission.
	❑ The total number of records in BCAN-CID Mapping File to be submitted by each RRI must be less than 20,000 records.
	❑ Check the BCAN-CID Response File to ensure the accuracy of the submitted BCAN-CID Mapping File.

Retrieval of BCAN-CID Validation Result File and BCAN Full Image File	
1:00pm – 8:00pm	**For EPs and non-EP RRIs** ❑ Retrieve and verify the BCAN-CID Process Result File and BCAN Full Image File. ❑ Perform end-of-trading procedures, if any, to ensure database integrity.

Remarks: Completion and return of feedback form for the MR is not necessary after MR 1. EPs and non-EP RRIs must return the feedback form for the MR to HKEX on or before 6 pm on 24 October 2022 after MR 2.

Appendix B – Activity Rundown for HKIDR MR 2 on 22 October 2022

MR 2 is also mandatory and is a continuation of MR 1. It allows EPs and non-EP RRIs to validate their system's setup in a production configuration to perform the followings:

1. For EPs and non-EPs RRIs, to simulate submission of BCAN-CID Mapping File updates and submission of reporting forms on T day;

2. For EPs, to simulate tagging of BCAN on-exchange orders/off-exchange trades and to simulate real-life trading activities (in terms of order input, pattern and volume).

Time	Activities
21 October 2022 (Friday) – After Market Close	
After 5:00pm	**For EPs – Preparation for BCAN tagging**
	❑ For all OCG-C/BSS sessions, ensure change, if any, to network configuration is properly completed.
	❑ Ensure all OCG-C/BSS components are powered on after trading hours.
	❑ Ensure the production database of in-house / back-office systems are properly backed-up.
	For all existing production BSS, please do not input any next day requests after trading hours on Friday (i.e., requests intended for submission to OTP-C/OCG-C on the following trading day, since next day requests will be submitted to OTP-C/OCG-C during the MR and will not be available on the following trading day).
	For non-EP RRIs
	❑ Ensure the production database of in-house / back-office systems are properly backed-up, if needed.
22 October 2022 (Saturday)	
Submission of BCAN-CID Mapping File and Reporting Forms (for all RRIs)	
9:00am – 12:00noon	**For EPs and non-EP RRIs**
	❑ Connect to the ECP 2.0 via
	➢ ECP Web Interface (https://ecp2.hkex.com.hk/) with Client Connect user ID or with SFC WINGS account; or
	➢ ECP SFTP Interface via SDNet/2 or HSN with Client Connect user ID and private key.
	❑ Submit BCAN-CID Mapping File, a corresponding BCAN-CID Response File will be returned within 10 minutes after submission. If a BCAN-CID Mapping File has already been successfully submitted in MR 1, the RRI should test the submission of an updated BCAN-CID Mapping File (e.g. with update of CID, addition or deletion of records).
	❑ The total number of records in BCAN-CID Mapping File to be submitted by each RRI must less than 20,000 records.
	❑ Check the BCAN-CID Response File to ensure the accuracy of the submitted BCAN-CID Mapping File.
	❑ Submit reporting forms [Note], a corresponding response file will be returned within 10 minutes after submission.
	❑ Check the response file(s) of the submitted reporting form(s) to ensure at least one record have passed the 2nd level validation (i.e. format validation).
	Note:
	• EPs are required to conduct testing on BCAN Change Report and BCAN Error Report. EPs should also conduct testing on the Aggregated

Time	Activities
	Transaction Report, BCAN Change for LP Quote Report and Off-exchange Trade BCAN (Buy-side) Report, if applicable.
	• Non-EP RRIs are required to conduct testing BCAN Change Report. Non-EP RRIs should also conduct testing on the Aggregated Transaction Report, if applicable.
Retrieval of BCAN-CID Validation Result File and BCAN Full Image File	
1:00pm – 8:00pm	**For EPs and non-EP RRIs** ❑ Retrieve and verify the BCAN-CID Process Result File and BCAN Full Image File.
Retrieval of Reporting From Result File	
5:00pm – 8:00pm	**For EPs and non-EP RRIs** ❑ Retrieve reporting form Result File.
BCAN Tagging (for EPs only)	
Ready for Market Open	
Before 9:00am	**For EPs only** **Logon to OTP-C Host** For **OCG-C/NSTD**: ❑ Perform Administrator Logon to ET Trade Speed Station. ❑ Perform logon for OCG-C sessions (including Trading and Drop Copy sessions) by using password "Ab123456". ❑ Perform ET Trade Speed Station start-of-trading procedure. ❑ Perform Trader logon. Note: If EP encounters any issue on ET Trade Speed Station, please directly contact ET Trade Customer Service Hotline at 2880-8601 or by email to cs@etnet.com.hk. For **OCG-C/BSS**: Perform logon for OCG-C sessions (including Trading and Drop Copy sessions) by using password "Ab123456".
Pre-opening Session (POS)	
9:00am – 9:30am	**For EPs only** ❑ The POS consists of: ❑ Order Input Period (9:00am – 9:15am) ❑ No-cancellation Period (9:15am – 9:20am) ❑ Random Matching Period (9:20am - 9:22am [random matching start time]) ❑ Order Matching (9:20am [random start time] – completion of order matching [variable end time]) ❑ Blocking Period (upon completion of order matching [variable end time time] - 9:30am) ❑ Simulate real-life trading activities (in terms of order input, pattern and volume). ❑ Tag BCAN to each of the on-exchange orders and off-exchange trades.
Morning Trading Session (Continuous Trading)	
9:30am – 10:45am	**For EPs only**

Time	Activities

	❑ The morning trading session consists of:
	  ❑ Without VCM monitoring (9:30am – 9:45am)
	  ❑ With VCM monitoring (9:45am – 10:45am)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.
	❑ Verify the system's compatibility with the two new features of OCG-C (i.e. transaction time in microsecond and provision of an aggressive/passive indicator for auto-matched trades during continuous trading session).

Exchange Intervention 10:45am – 10:50am	
Mid-day Close 10:50am – 10:55am	
Order Cancellation Period	
10:55am – 11:00am	**For EPs only** ❑ Simulate real-life cancellation of outstanding orders.
Afternoon Trading Session (Continuous Trading)	

11:00am – 12:00noon	**For EPs only**
	❑ The afternoon trading session consists of:
	  ❑ Without VCM monitoring (11:00am – 11:15am)
	  ❑ With VCM monitoring (11:15am – 11:40am)
	  ❑ Without VCM monitoring (11:40am – 12:00noon)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.
	❑ Verify the system's compatibility with the two new features of OCG-C (i.e. transaction time in microsecond and provision of an aggressive/passive indicator for auto-matched trades during continuous trading session).

Closing Auction Session (CAS)	

12:00noon – 12:10pm	**For EPs only**
	❑ The CAS consists of:
	  ❑ Reference Price Fixing Period (12:00noon – 12:01pm)
	  ❑ Order Input Period (12:01pm – 12:06pm)
	  ❑ No-cancellation Period (12:06pm – 12:08pm)
	  ❑ Random Closing Period (12:08pm – 12:10pm [random close time])
	  ❑ Order Matching (12:08pm [random start time] – completion of matching [variable end time])
	  ❑ Day Close (upon completion of matching)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.

Day Close – upon completion of matching	
12:10pm	**For EPs only** For **OCG-C/NSTD**: ❑ Perform trader logout. ❑ Perform ET Trade Speed Station end-of-trading procedure. ❑ Logout and terminate OCG-C session. ❑ Logout all ET Trade Speed Stations.

Time	Activities
	For **OCG-C/BSS:** ❑ Logout and terminate OCG-C session. ❑ Perform end-of-trading procedures, if any, to ensure database integrity. ❑ Clean up the transaction data (e.g. orders and trades) entered during the rehearsal from BSS, if applicable. ❑ Restore the data and proper BSS production configuration for following Monday, if necessary.
Download Day-end Trade File	
12:40pm - 1:30pm	**For EPs only** ❑ Day-end trade file and closing price file in Central Trade Feed (CTF) format will be available from 12:40pm to 1:30pm. EPs are required to login ECP 2.0 with user function "EU_ECPTO" in order to download the files.
Post Test Verification Session after MR – fallback to OTP-C/OCG-C without BCAN (optional and applicable to EPs with prior registration)	
7:00pm – 8:00pm	**For EPs only** *Note :* ***Only EPs who have indicated their participation in the notification form will have ALL of their enrolled production OCG-C/BSS sessions enabled to participate in the Post Test Verification Session.*** **Logon to OTP-C Host** ❑ Connect to OCG-C for all OCG-C/BSS sessions (including Trading and Drop Copy sessions). **Trading Timetable** <table><tr><td></td><td>**Trading Sessions**</td></tr><tr><td>7:00pm - 8:00pm</td><td>Continuous Trading Session</td></tr><tr><td>8:00pm</td><td>Day Close</td></tr></table> **After completion of post-test verification** ❑ Logout and terminate OCG-C/BSS sessions. ❑ Perform end-of-trading procedures, if any, to ensure database integrity. ❑ Clean up the transaction data (e.g. orders and trades) entered during this test from BSS (if applicable). Note: 1. Logon using the assigned Comp ID(s) and **Production password** for all OCG-C/BSS sessions (including Trading and Drop Copy sessions). 2. Participating EPs are reminded to input password correctly as unlock OCG-C session or reset password will not be handled during the Post Test Verification Session.
Complete and Return Feedback Form	
Before 6:00pm, 24 October 2022	**For EPs and non-EP RRIs** ❑ Complete and return the Feedback Form for MR 1 and MR 2 to HKEX through ECP 2.0 (https://ecp2.hkex.com.hk/).

Time	Activities
	(Please save the completed Feedback Form in pdf format with the file name as HKIDRMR_XXXXXX.pdf (where XXXXXX is CE no. of RRI) and login to ECP 2.0 via Client Connect or SFC WINGS to submit the Feedback Form to HKEX. The completed Feedback Form should be submitted to HKEX by clicking of "Feedback Form for HKIDR MR" on the submission list page.)

Appendix C – Activity Rundown for HKIDR MR 3 on 29 October 2022

MR is only mandatory for those RRIs which have not successfully completed MR 1 and/or MR 2. It allows EPs and non-EP RRIs to validate their system's setup in a production configuration and to perform the followings:

1. For EPs and non-EP RRIs, to simulate the submission of BCAN-CID Mapping File and reporting forms;

2. For EPs, to simulate tagging of BCAN on-exchange orders/off-exchange trades and to simulate real-life trading activities (in terms of order input, pattern and volume);

3. In addition, a site failover scenario on file submission via ECP 2.0 will be arranged during this MR 3. ECP 2.0 will failover to the secondary data center, while OTP-C will NOT be affected during ECP 2.0 site failover.

Time	Activities
28 October 2022 (Friday) – After Market Close	
After 5:00pm	**For EPs** ❑ For all OCG-C/BSS sessions, ensure change, if any, to network configuration is properly completed. ❑ Ensure all OCG-C/BSS components are powered on after trading hours ❑ Ensure the production database of in-house / back-office systems are properly backed-up. For all existing production BSS, please do not input any next day requests after trading hours on Friday (i.e., requests intended for submission to OTP-C/OCG-C on the following trading day, since next day requests will be submitted to OTP-C/OCG-C during the MR and will not be available on the following trading day). **For non-EP RRIs** ❑ Ensure the production database of in-house / back-office systems are properly backed-up, if needed.
29 October 2022 (Saturday)	
Submission of BCAN-CID Mapping File and Reporting Forms	

9:00am – 9:30am	**For EPs and non-EP RRIs**
	❑ Connect to the ECP 2.0 via
	  ➢ ECP Web Interface (https://ecp2.hkex.com.hk/) with Client Connect user ID or with SFC WINGS account; or
	  ➢ ECP SFTP Interface via SDNet/2 or HSN with Client Connect user ID and private key.
	❑ Submit BCAN-CID Mapping File, a corresponding BCAN-CID Response File will be returned within 10 minutes after submission.
	❑ The total number of records in BCAN-CID Mapping File to be submitted by each RRI must less than 20,000 records.
	❑ Check the BCAN-CID Response File to ensure the accuracy of the submitted BCAN-CID Mapping File.
	❑ Submit reporting forms [Note], a corresponding response file will be returned within 10 minutes after submission.
	❑ Check the response file(s) of the submitted reporting form(s) to ensure at least one record one record have passed the 2nd level validation (i.e. format validation).

Time	Activities
	Note: • EPs are required to conduct testing on BCAN Change Report and BCAN Error Report. EPs should also conduct testing on the Aggregated Transaction Report, BCAN Change for LP Quote Report and Off-exchange Trade BCAN (Buy-side) Report, if applicable. • Non-EP RRIs are required to conduct testing BCAN Change Report. Non-EP RRIs should also conduct testing on the Aggregated Transaction Report, if applicable.
Simulation of Site Failover Scenario on file submission via ECP 2.0	
9:30am – 10:30am	❑ ECP 2.0 will failover to secondary data center (no action required from RRIs).
10:30am – 12:00noon	**For EPs and non-EP RRIs** ❑ EPs and non-EP RRIs can test their connection to the ECP 2.0 via the ECP Web Interface or ECP SFTP Interface (use secondary addresses as stated on Item No. 5 of section "For ECP 2.0 SFTP Interface" of Appendix G). ❑ EPs and non-EP RRIs can retrieve the response file(s) distributed prior to site failover. ❑ EPs and non-EP RRIs can submit BCAN-CID Mapping File and reporting forms again.
Retrieval of BCAN-CID Validation Result File and BCAN Full Image File	
1:00pm – 8:00pm	**For EPs and non-EP RRIs** ❑ Retrieve and verify the BCAN-CID Process Result File and BCAN Full Image File via the ECP Web Interface or ECP SFTP Interface (use secondary addresses).
Retrieval of Reporting From Result File	
5:00pm – 8:00pm	**For EPs and non-EP RRIs** ❑ Retrieve Reporting Form Result File via the ECP Web Interface or ECP SFTP Interface (use secondary addresses).
BCAN Tagging (for EPs only)	
Ready for Market Open	
Before 9:00am	**For EPs only** **Logon to OTP-C Host** For **OCG-C/NSTD**: ❑ Perform Administrator Logon to ET Trade Speed Station. ❑ Perform logon for OCG-C sessions (including Trading and Drop Copy sessions) by using password "Ab123456". ❑ Perform ET Trade Speed Station start-of-trading procedure. ❑ Perform Trader logon. Note: If EP encounters any issue on ET Trade Speed Station, please directly contact ET Trade Customer Service Hotline at 2880-8601 or by email to cs@etnet.com.hk. For **OCG-C/BSS**: Perform logon for OCG-C sessions (including Trading and Drop Copy sessions) by using password "Ab123456".
Pre-opening Session (POS)	

Time	Activities

9:00am – 9:30am	**For EPs only**
	❑ The POS consists of:
	  ❑ Order Input Period (9:00am – 9:15am)
	  ❑ No-cancellation Period (9:15am – 9:20am)
	  ❑ Random Matching Period (9:20am - 9:22am [random matching start time])
	  ❑ Order Matching (9:20am [random start time] – completion of order matching [variable end time]).
	  ❑ Blocking Period (upon completion of order matching [variable end time time] - 9:30am)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.

Morning Trading Session (Continuous Trading)	

9:30am – 10:45am	**For EPs only**
	❑ The morning trading session consists of:
	  ❑ Without VCM monitoring (9:30am – 9:45am)
	  ❑ With VCM monitoring (9:45am – 10:45am)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.
	❑ Verify the system's compatibility with the two new features of OCG-C (i.e. transaction time in microsecond and provision of an aggressive/passive indicator for auto-matched trades during continuous trading session).

Exchange Intervention 10:45am – 10:50am	
Mid-day Close 10:50am – 10:55am	
Order Cancellation Period	
10:55am – 11:00am	**For EPs only** ❑ Simulate real-life cancellation of outstanding orders.
Afternoon Trading Session (Continuous Trading)	

11:00am – 12:00noon	**For EPs only**
	❑ The afternoon trading session consists of:
	  ❑ Without VCM monitoring (11:00am – 11:15am)
	  ❑ With VCM monitoring (11:15am – 11:40am)
	  ❑ Without VCM monitoring (11:40am – 12:00noon)
	❑ Simulate real-life trading activities (in terms of order input, pattern and volume).
	❑ Tag BCAN to each of the on-exchange orders and off exchange trades.
	❑ Verify the system's compatibility with the two new features of OCG-C (i.e. transaction time in microsecond and provision of an aggressive/passive indicator for auto-matched trades during continuous trading session).

Closing Auction Session (CAS)	

12:00noon – 12:10pm	**For EPs only**
	❑ The CAS consists of:
	  ❑ Reference Price Fixing Period (12:00noon – 12:01pm)
	  ❑ Order Input Period (12:01pm – 12:06pm)
	  ❑ No-cancellation Period (12:06pm – 12:08pm)

Time	Activities
	❑ Random Closing Period (12:08pm – 12:10pm [random close time]) ❑ Order Matching (12:08pm [random start time] – completion of matching [variable end time]) ❑ Day Close (upon completion of matching) ❑ Simulate real-life trading activities (in terms of order input, pattern and volume). ❑ Tag BCAN to each of the on-exchange orders and off-exchange trades.

Day Close – upon completion of matching

12:10pm	**For EPs only** For **OCG-C/NSTD**: ❑ Perform trader logout. ❑ Perform ET Trade Speed Station end-of-trading procedure. ❑ Logout and terminate OCG-C session. ❑ Logout all ET Trade Speed Stations. For **OCG-C/BSS**: ❑ Logout and terminate OCG-C session. ❑ Perform end-of-trading procedures, if any, to ensure database integrity. ❑ Clean up the transaction data (e.g. orders and trades) entered during the rehearsal from BSS, if applicable. ❑ Restore the data and proper BSS production configuration for following Monday, if necessary.

Download Day-end Trade File

12:40pm – 1:30pm	**For EPs only** ❑ Day-end trade file and closing price file in Central Trade Feed (CTF) format will be available from 12:40pm to 1:30pm. EPs are required to login ECP 2.0 with user function "EU_ECPTO" in order to download the files.

Post Test Verification Session after MR – fallback to OTP-C/OCG-C without BCAN (optional and applicable to EPs with prior registration)

7:00pm – 8:00pm	**For EPs only** *Note :* *Only EPs who have indicated their participation in the notification form given in Appendix A will have ALL of their enrolled production OCG-C/BSS sessions enabled to participate in the Post Test Verification Session.* **Logon to OTP-C Host** ❑ Connect to OCG-C for all OCG-C/BSS sessions (including Trading and Drop Copy sessions). **Trading Timetable** 		**Trading Sessions**	 	---	---	 	7:00pm - 8:00pm	Continuous Trading Session	 	8:00pm	Day Close	 **After completion of post-test verification** ❑ Logout and terminate OCG-C/BSS sessions.

Time	Activities
	❑ Perform end-of-trading procedures, if any, to ensure database integrity. ❑ Clean up the transaction data (e.g. orders and trades) entered during this test from BSS (if applicable). Note: 1. Logon using the assigned Comp ID(s) and **Production password** for all OCG-C sessions (including Trading and Drop Copy sessions). 2. Participating EPs are reminded to input password correctly as unlock OCG-C session or reset password will not be handled during the Post Test Verification Session.
Complete and Return Feedback Form	
Before 6:00pm, 31 October 2022	**For EPs and non-EP RRIs** ❑ Complete and return the Feedback Form for MR 3 to HKEX through ECP 2.0 (https://ecp2.hkex.com.hk/). *(Please save the completed Feedback Form in pdf format with the file name as HKIDRMR_XXXXXX.pdf (where XXXXXX is CE no. of RRI) and login to ECP 2.0 via Client Connect or SFC WINGS to submit the Feedback Form to HKEX. The completed Feedback Form should be submitted to HKEX by clicking of "Feedback Form for HKIDR MR" on the submission list page.)*

Appendix D – Quick reference of BCAN-CID Mapping File and Reporting Form Submission

For ECP 2.0 Web Interface

No.	Task	Synopsis	Reference Section (HKIDR File Transfer Connectivity Guide)
Prior to file submission via ECP 2.0 web interface			
1	Setup Business Functions in Client Connect for ECP's business user account that will be used for submitting BCAN-CID Mapping File and/or Reporting Forms	Business Functions to be assigned by Delegated Administrator (DA) of RRI in HKEX's Client Connect. **For EPs** <table><tr><td>Identity</td><td>Business Function to be Assigned</td></tr><tr><td>ECP SEHK Participant</td><td>EU_ECPTO</td></tr><tr><td>ECP Relevant Regulated Intermediaries</td><td>EU_ECPHKIDR</td></tr></table> **For EPs and non-EP RRIs (submission via SFC WINGS)** - EPs and non-EP RRIs who log onto the ECP via the SFC's WINGS platform should update their mobile phone and email in the individual WINGS profile and ensure their mobile phone and email are accurate before participating in each market rehearsal, in order to receive the One-Time-Password (OTP) for authentication on the SFC's WINGS platform.	Section 5.4
File submission via ECP 2.0 web interface			
2	Login	Login URL for ECP 2.0: https://ecp2.hkex.com.hk **For EPs (via Client Connect)** - click "HKEX Client Connect" - enter User ID/Email and Password of Client Connect to login to ECP 2.0 **For EPs and non-EP RRIs (via SFC WINGS)** - click "SFC WINGS" - enter Username and Password of WINGS to login to ECP 2.0 Note: EPs cannot submit BCAN Change for LP Quote Report, BCAN Error Report and Off-exchange Trade BCAN (Buy-side) Report to HKEX if they authenticate through the SFC WINGS platform.	Section 5.1
3	(One-off representation)	**For EPs and non-EP RRIs**	Section 3.1

	Prior to the first time submission, RRI to confirm that consent from clients have been obtained	- after login to ECP, click "BCAN-CID Mapping File Client Consent" to make a one-off representation to HKEX	

4	File Submission	At File Submission menu
		
		For EPs and non-EP RRIs
		
		1. For submission of BCAN-CID Mapping File
		  - click "BCAN-CID Mapping File for HKIDR"
		
		2. For submission of (1) Aggregated Transaction Report and (2) BCAN Change Report
		  - click "Aggregated Transaction and BCAN Change Reports"
		
		For EPs only
		
		3. For submission of (1) BCAN Change for LP Quote Report, (2) Off-exchange Trade BCAN (Buy-Side) Report and (3) BCAN Error Report
		  - click "BCAN Change for LP Quote, BCAN Error and Off-exchange Trade BCAN (Buy-Side) Reports"
			Section 3.2

Download files from ECP 2.0 via web interface			
5	File Download	**For EPs and non-EP RRIs** To download BCAN Full Image File and various response and result files - go to the Download Corner	Section 3.3
6	Activity Enquiry	**For EPs and non-EP RRIs** To enquire activity - go to the Activity Enquiry	Section 3.4

For ECP 2.0 SFTP Interface

No.	Task	Synopsis	Reference Section
			(HKIDR File Transfer Connectivity Guide)
Prior to file submission via ECP 2.0 SFTP interface			

1	Setup Business Functions in Client Connect for ECP user account that will be used for submitting BCAN-CID Mapping File and Reporting Forms. *Note: Non-EP RRIs are reminded that installation of a SDNet/2 production line is required if they want to use SFTP and please refer to the circular CT/112/22 and CT/132/22 for more details*	Business Functions to assign by DA of RRI in Client Connect. **For EPs** <table><tr><td>Identity</td><td>Business Function to be assigned</td></tr><tr><td>ECP SEHK Participant</td><td>EU_ECPTO EU_ECPSFTP</td></tr><tr><td>ECP Relevant Regulated Intermediaries</td><td>EU_ECPHKIDR EU_ECPSFTP</td></tr></table> **For Non-EPs** <table><tr><td>Identity</td><td>Business Function to be assigned</td></tr><tr><td>ECP Relevant Regulated Intermediaries</td><td>EU_ECPHKIDR EU_ECPSFTP</td></tr></table>	Section 5.4
2	SFTP Key Registration via ECP 2.0 **web interface**	Login URL for ECP 2.0 web interface: https://ecp2.hkex.com.hk **For EPs and non-EP RRIs (via Client Connect)** - click "HKEX Client Connect" - enter User ID/Email and Password of Client Connect to login to ECP 2.0 - after login to ECP via web interface, click "SFTP Key Management" to upload SFTP public key	Section 3.5.1
3	IP Address Registration via ECP 2.0 **web interface** *Note: Up to 4 addresses of the SFTP client workstations can be registered that will be used for file submission via ECP 2.0 SFTP interface*	Login URL for ECP 2.0 web interface: https://ecp2.hkex.com.hk **For EPs and non-EP RRIs (via Client Connect)** - click "HKEX Client Connect" - enter User ID/Email and Password of Client Connect to login to ECP 2.0 - after login to ECP via web interface, click "SFTP Key Management" to register IP address	Section 3.5.3
File submission via ECP 2.0 SFTP interface			
4	(One-off representation) Prior to the first time submission, RRI need to confirm via ECP 2.0 **web interface** that consent from clients have been obtained	Login URL for ECP 2.0 web interface: https://ecp2.hkex.com.hk **For EPs (via Client Connect)** - click "HKEX Client Connect" - enter User ID/Email and Password of Client Connect to login to ECP 2.0 - after login to ECP via web interface, click "BCAN-CID Mapping File Client Consent" to make a one-off representation to HKEX **For EPs and non-EP RRIs (via SFC WINGS)**	Section 3.1

		- click "SFC WINGS" - enter Username and Password of WINGS to login to ECP 2.0 - after login to ECP via web interface, click "BCAN-CID Mapping File Client Consent" to make a one-off representation to HKEX	
5	SFTP Connection to ECP	**For EPs and non-EP RRIs** - login ECP SFTP interface via SDNet/2 or HSN with Client Connect Login ID and respective private key Users should always try starting with the primary addresses. <u>IP address of ECP SFTP facilities:</u> Connection through OCG-C network interface / ECP (non-EP) circuit: | Primary data center	10.1.93.131 Port 18801 10.1.93.132 Port 18801
Secondary data center	10.2.93.131 Port 18801 10.2.93.132 Port 18801 | Connection through CCCG network interface: | Primary data center	10.1.145.131 Port 18801 10.1.145.132 Port 18801
Secondary data center	10.2.145.131 Port 18801 10.2.145.132 Port 18801		Section 5.2.1
6	File Submission	**For EPs and non-EP RRIs** SFTP Path: /submission/HBCNMAPP for submission of • BCAN-CID Mapping File **For EPs and non-EP RRIs** SFTP Path: /submission/HBCNRFELR for submission of • Aggregated Transaction Report • BCAN Change Report **For EPs only** SFTP Path: /submission/HBCNRFEO for submission of • BCAN Change for LP Quote Report • BCAN Error Report • Off-exchange Trade BCAN (Buy-side) Report	Section 4.4

Download files from ECP 2.0 via SFTP interface

| 7 | File Download | **For EPs and non-EP RRIs**

SFTP Path: /download/HBCNMAPP for download of
• BCAN-CID Response File
• BCAN Process Result File
• BCAN Full Image File

For EPs and non-EP RRIs

SFTP Path: /download/HBCNRFRPR for download of
• Aggregated Transaction Report Response File
• Aggregated Transaction Report Result File
• BCAN Change Report Response File
• BCAN Change Report Result File

For EPs only

SFTP Path: /download/HBCNRFRPR for download of
• BCAN Change for LP Quote Report Result File
• BCAN Change for LP Quote Report Response File
• BCAN Error Report Response File
• BCAN Error Report Result File
• Off-Exchange Trade BCAN (Buy-side) Report Response File
• Off-Exchange Trade BCAN (Buy-side) Report Result File | Section 4.5 |