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# **AGENDA**

- 1 Project Overview
- 2 Enhanced System Features
- 3 Report Servers
- 4 OAPI Changes
- 5 References and Enquiries
- 6 Appendices



#### PROJECT OVERVIEW

- Enhancement of existing functionalities and future business needs
- Retirement of CLICK and Network Gateway (NG)
- Central Gateway as the only access point to HKATS and DCASS
- Introduction of Web Based Core Desktop (CD)
  - Training to be provided in Q2 2018
  - Participants could familiarize CD with testing SDNet circuit
  - Firewall configurations for CD is similar to the PTRM settings
  - Hardware & Software requirements refer to Appendix 4
- Upcoming key milestones
  - April 2018, promotion program for early migration to CG
  - Q2 2018, launch of OMD-D D-Lite
  - Q1 Q2 2018, complete necessary development and certification test



# **ENHANCED SYSTEM FEATURES**- OVERVIEW

- HKATS root symbols field extended from 3 to 5 alpha-numeric characters
- Support contracts with flexible expiry date (weekly / daily expiry contracts)
- "Exchange Info" field at order level will be extended from 32 bytes to 40 bytes
- Facilitate trading and clearing during Hong Kong holidays
- SEOCH Clearing Participant (CP) can input their own stock options exercise limit per Instrument Type via Core Desktop Clearing
- Enhance margin offset capability
  - with modified Risk Parameter File (RPF)



# ENHANCED SYSTEM FEATURES - HKATS ROOT SYMBOLS

- Upon the launch of the Upgrade, HKATS root symbols for new products will be varied from 3 to 5 alpha-numeric characters, applicable to trading, clearing, market data, PTRM and DCASS reports as well as RPF
- HKATS root symbols for existing products remain <u>unchanged</u> with 3 characters, e.g. HSI, CKH, LRA; NO data conversion required
- To facilitate Participants to verify their OAPI program and BOS, root symbol with 5 characters will be setup for new stock options and futures in the OAPI testing environment, available tentatively in Q2 2018
- Participants will be required to confirm their readiness in supporting 5 characters during the certification test and Market Rehearsal

Note: Please refer to Information Paper for the list of modified files & reports



#### - CONTRACTS WITH FLEXIBLE EXPIRY DATE FOR INDEX OPTIONS

- Support contracts with flexible expiry date (weekly / daily expiry contracts)
- To facilitate Participants to verify their OAPI program and BOS, "weekly expiry contracts" will be setup in the OAPI testing environment and Market Rehearsal
- Apart from series name as indicated below, the field "expiration\_date\_n" can be
  used to indicate the last trading date of both monthly and weekly series.

Type of Contracts	Series Name	Remarks
Monthly (per existing)	HSI20000L7 HSI20000X7	
Weekly (new)	HSI20000L7W15 HSI20000X7W15	<ul><li>W – Indicator as weekly expiry</li><li>15 – Indicator as the expiration date of the contract</li></ul>

Note: Please refer to Information Paper for the list of modified files & reports in relation to the contract date code for flexible expiry date



# **ENHANCED SYSTEM FEATURES**- "EXCHANGE INFO" FIELD AT ORDER LEVEL

- "Exchange Info" field at order level will be extended from 32 bytes to 40 bytes
- Participants should only use the leftmost 15 bytes, as per current practice
- The rightmost 25 bytes is reserved for future usage by HKEX
- The corresponding "Pass Through" data field in Position Movement Details Report (TP003) for Clearing Participants will be extended from 32 to 40 characters accordingly
- Participants are required to confirm their OAPI, BOS program be able to support the extended Exchange Info field

Note: Please refer to the section on OAPI Changes for more information



- TRADING, CLEARING AND SETTLEMENT DURING HK HOLIDAYS

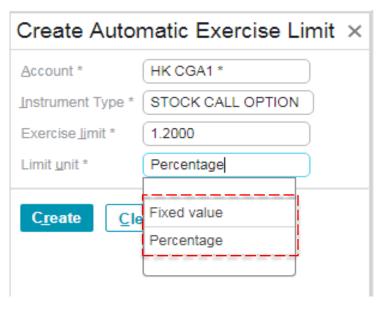
#### **Arrangements during HK holidays:**

Porticipant	On HK Holidays (H-Day)		
Participant	Holiday Product (H Product)	Non-Holiday Product (Non-H Product)	
Holiday Participant	<ul> <li>Allow Trading/Clearing/Post trade activities on H day</li> <li>H-1 day-end obligation settle on H day</li> <li>H intra-day obligation settle on same day</li> <li>H day-end obligation settle on next day</li> </ul>	<ul> <li>NO Trading/Clearing/Post trade activities</li> <li>H-1 day-end obligation settle on H+1</li> </ul>	
Non- Holiday Participant	NO activity during H day		

- H Product has different trading calendar with other products
- Non-H Product do not require to fulfil the money settlement obligation on H-day
- CCMS report CCMPY02 will be modified to provide the shortfall/outstanding debit handling of Non-H Product on H-1 / H-Day day-end. Please refer to Appendices 5 - 7 for an illustration report layout of modified CCMPY02
- All DCASS and CCMS reports for that particular Clearing House will be available if the Clearing House is opened for clearing on the day



- SEOCH CP TO SET THEIR OWN STOCK OPTIONS EXERCISE LIMIT
- Currently, SEOCH pre-defined the in-the-money ("ITM") triggering limit at 1.5%
- In response to market demand
  - DCASS will be enhanced with a new on-line function, available from SEOCH clearing service, for CP to set its own ITM limit for <u>ALL</u> spot month contracts, which will take effect immediately
    - > in percentage; or
    - fixed value





# - SEOCH CP TO SET THEIR OWN STOCK OPTIONS EXERCISE LIMIT (CONT'D)

#### Example:

Case 1: define ITM Limit in percentage as 1.2%

LIMIT UNIT	LIMIT	DEFAULT LIMIT	DEFAULT LIMIT UNIT
Percentage	1.2000	1.5000	Percentage

Case 2: define ITM Limit in percentage as 2%

LIMIT UNIT	LIMIT	DEFAULT LIMIT	DEFAULT LIMIT UNIT
Percentage	2.0000	1.5000	Percentage

Case 3: define ITM Limit in fixed value at HKD50

LIMIT UNIT	LIMIT	DEFAULT LIMIT	DEFAULT LIMIT UNIT
Fixed value	50.000	1.5000	Percentage

Note: SEOCH Participants should take extra cautious in setting up the Exercise Limit in DCASS

> DCASS will automatically generate exercise requests in respect of long position in spot month contracts, which is in-themoney by or above the predefined Exercise Limit



# **ENHANCED SYSTEM FEATURES**- RISK PARAMETER FILE (RPF) MODIFICATION

- To enhance margin offset capability and facilitate the above mentioned new initiatives
  - Existing RPF's Record Types 2, 3, 4, 5, 6, 8, B, C and T will be enriched according to CME risk parameter file specification
  - Examples:
    - ➤ Renaming of Combined Commodity Code in Record Type 2, 3, 4, 5, 6 & C
    - Day Code will be added to Combined Commodity in Record Type 3, 8 & B in which has flexible expiry date contracts
    - New margin offset method "Scanning Based Intercommodity Spread (ICS)" will be introduced in Record Type 6
  - Please refer to Appendices 8 13 for details



#### REPORT SERVERS

- Report Servers for retrieving reports / data files (including PTRM & DCASS)
  - make necessary planning and review on the capacity and security setting for local storage of the retrieved reports / data files
  - technical details will be available in Q1 2018
  - to be implemented by Q2 2018
  - will be available in parallel with existing DCASS Servers for report retrieval until launch of the Upgrade
- DCASS Servers and DCASS Terminals should only be redeployed for other use upon the completion of the 2-week stabilisation after the launch of the Upgrade



# OAPI CHANGES - HKATS OAPI MESSAGES

	Changed HKATS OAPI Messages				
Existing Message Replaced by Message			y Message		
١	MC4 Quote request with volume		MO51	Quote Request	

OAPI	Message Description	Description of Changes
BD6/CQ10/CQ11/BO5/ MO4/MO31/MO33/MO37/ MO40/MO74/MO75/ MO76/MO77/MO99/ MQ8/MQ78/MQ80/MQ9		Mandatory changes Field at order level will be extended from 32 bytes to 40 bytes, with rightmost 25 bytes reserved for HKEX future use
MO96, RA44	Change of field names: bid_premium_i, ask_premium_i	Mandatory field names change
DC3	Addition fields filler_1_s, pricing_method_c in adding TMC	Mandatory Specify the price model "net value/ net price"
BU12x, DA12x	New field pricing_method_c in adding tailor-made combo query (DC3), and in corresponding series information	Specify the pricing method used for the combo series
MI4	New fields order_number_u and timestamp_created_q in quote request info broadcast	Additional reference information for quote request
BI1	New field locked_underlying_c in suspend/resume trading broadcast	Specify if the underlying is suspended for post-trade operations
BI63	New field date_and_time_s in settlement price update broadcast	Additional reference information for settlement price
BD6, CA10, CA11	Added structure cl_orig_deal_number_t to clearing trade	Additional references for original deal



# OAPI CHANGES - NEW DCASS OAPI MESSAGES

	New OAPI Messages				
New Mess	ages	Description			
BI1 <sup>1</sup>	Resumption and Suspension of Trading Broadcast	For suspended trading and post-trading			
CC100 Create Automatic Exercise Limit CC101 Update Automatic Exercise Limit CC102 Delete Automatic Exercise Limit		For Automatic Exercise Limit update			
CQ34	Query Automatic Exercise Limit	For querying of Automatic Exercise Limit			



# OAPI CHANGES - DCASS OAPI MESSAGES

OAPI	Message Description	Description of Changes
CQ10/CQ11/ BD6	New struct cl_orig_deal_number	For give-up/take-up trade, this field references the original deal
CQ10/CQ11/ BD6/MQ392/ MQ393/BO5	hkex_exchange_info replace exchange_info_s	Field at order level will be extended from 32 bytes to 40 bytes, with rightmost 25 bytes reserved for HKEX future use
BI1	locked_underlying_c	Specifies if the underlying is suspended for post-trade operations
DQ125/BU125, DQ136/BU136	New field pricing_method_c	Specifies the pricing method used for the combo series
DQ35	cl_status_c	Specifies the clearing status for the participant
DQ125/BU125/ DQ136/BU136	New value of series_status_c  New status of suspended_c	Suspend the underlying for post-trade operations: - the series_status_c and suspended_c of corresponding series and combo series is set to <a href="Locked">Locked</a>
		<ul> <li>Resume the underlying for post-trade operations:</li> <li>the suspended_c of corresponding series and combo series is set to <u>No</u></li> </ul>
RQxx	oapi replacement	RQxx oapi are currently not used by any participants. They will no longer be available in DCASS and will be replaced by corresponding DCASS reports



#### **REFERENCES & ENQUIRES**

# **REFERENCES & Information Paper**

Please visit <u>HKATS & DCASS Upgrade Web Corner</u> for up-to-date information on HKATS & DCASS Upgrade

Participants could make reference to the <u>Information Paper</u> for the project overall information

# **ENQUIRES**

#### **HKATS**

Hotline: 2211 6360

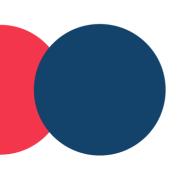
Email: clicksupport@hkex.com.hk

#### **DCASS**

DCASS Hotline: 2979 7222

• Email: ClearingPSD@hkex.com.hk

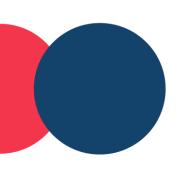






# **Questions and Answers**

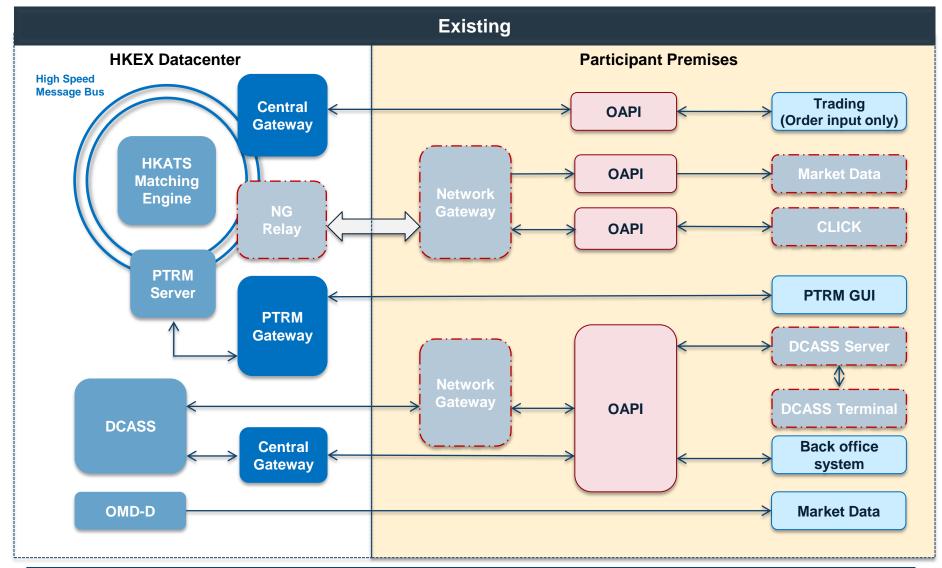




# **APPENDICES**

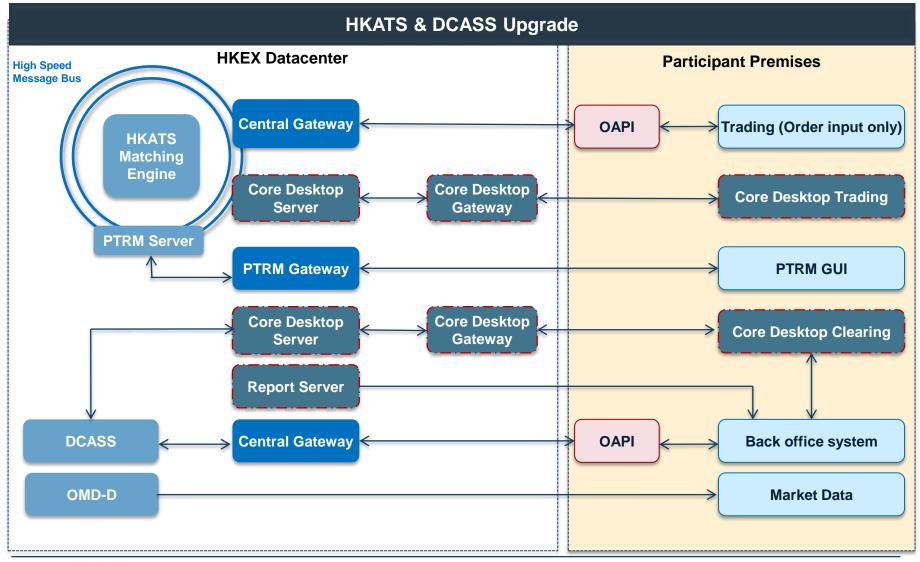


#### - EXISTING INFRASTRUCTURE





#### - NEW INFRASTRUCTURE AFTER HKATS & DCASS UPGRADE





#### - PRELIMINARY BANDWIDTH REQUIREMENTS

# The minimum bandwidth requirements for HKATS & DCASS are listed below:

Per Connection		Bandwidth Requirement		
		HKATS only	DCASS only	
	OAPI	3 Mbps <sup>1</sup>	3 Mbps	
Central Gateway	Core Desktop	0.4 Mbps	0.4 Mbps	
	Report Retrieval	N/A	1 Mbps	
PTRM Gateway		1 Mbp	S	



#### - HARDWARE & SOFTWARE REQUIREMENTS

The requirements for Core Desktop and Report Retrieval are listed below:

Core Desktop (Trading / Clearing)	Minimum Requirement
Processor	Intel Core i3-550 3.2GHz or higher
RAM	4GB
Storage	3GB
Network adapter	100Mbps full-duplex
Monitor	21" with 1280 x 1024 resolution
Operating System	Microsoft Windows 7 (64 bit)
Layered software	Anti-virus software
Supported Browser	Google Chrome <sup>1</sup>
Network Circuit	<ul> <li>via SDNet connection</li> </ul>
	<ul> <li>Firewall/Services Ports configuration, if necessary</li> </ul>
Report Retrieval	Recommended Installation Requirement
Operating System	Any platform
Software for Report Download	Secure File Transfer Protocol Compliance software
Network Circuit	<ul> <li>via SDNet connection</li> </ul>
	<ul> <li>Firewall/Services Ports configuration, if necessary</li> </ul>



### - TRADING, CLEARING AND SETTLEMENT DURING HK HOLIDAYS

#### ILLUSTRATION OF DAY-END COLLATERALISATION & DDI PAYMENT PROCESS<sup>1</sup>

		HK Business Day	НК Но	HK Holiday (H)		
		H-1 Day (22 Dec 2017)	H Day (25 Dec 2017)	H Day (26 Dec 2017)	H+1 Day (27 Dec 2017)	
Holiday Trading Participant						
Collateral Deposit &	Withdrawal	Normal	<ul><li>Cash collateral deposit only</li><li>Collateral withdrawal <u>not</u> allowed</li></ul>		Normal	
Day-end	Holiday Trading Product	DDI to be collected on H Day (25-Dec)	DDI to be collected on next H Day (26-Dec)	DDI to be collected on H+1 (27-Dec)		
Collateralisation & Payment for DDI	Non-holiday Trading Product	<ul><li>Set aside outstanding debit</li><li>Not include shortfall amount</li></ul>	Skipped	Re-post of H-1 (22-Dec) day-end margin and outstanding debit set aside	Normal	
Day-end DCI standing withdrawal instruction		No DCI generated	No DCI generated	DCI to be released on H+1 (27-Dec)	Normal	
Non-Holiday Trading	Participant					
Collateral Deposit and Withdrawal		Normal	Not allowed		Normal	
Day-end Collateralisation & Payment for DDI		DDI to be collected on H+1 (27-Dec)			Normal	
Day-end DCI standing withdrawal instruction		DCI to be released on H+1 (27-Dec)	Skipped		Normal	



#### - TRADING, CLEARING AND SETTLEMENT DURING HK HOLIDAYS (CONT'D)

#### **CCMPY02 - Posting Collateralisation Result Report**

New Section for Non-Holiday Products will be displayed on H-1 report



# - TRADING, CLEARING AND SETTLEMENT DURING HK HOLIDAYS (CONT'D)

#### **CCMPY02 - Posting Collateralisation Result Report**

New Section for Non-Holiday Products will be displayed on the preceding day of H+1 report

XXXXXXXXXXXXXX							
(XXXXXXXXXXXXXX	XXXXXXX	XXXXX	XXX	-2,222,222,222,229.99 -2,222,222,222,229.99		-z,zzz,zzz,zzz,zz9.99 -z,zzz,zzz,zzz,zz9.99	
BLIGATION COLLATERALIS	ATION						
ART ID/CUST A/C CODE	PRODUCT	OB/TXN	CCA	AMOUNT	ORG CCY	ORG AMOUNT	EX RATE
OCXXXXXXXXXXXXXXXXX	XXXXXXX	XXXXX	XXX	-Z,ZZZ,ZZZ,ZZZ,ZZ9.99 -Z,ZZZ,ZZZ,ZZZ,ZZ9.99			
UTSTANDING DEBIT INDUC	ED FROM NON	-H-PRODUCT (	CARRY FO	RWARD FROM PRECEDING HK I	BUSINESS 1	DAY	

This section is applicable to H-Part only, and will be displayed on the last H-Day (in case of consecutive H-Days) such that next day is H+1 normal day.



# - RISK PARAMETER FILE (RPF) MODIFICATION

#### Record Type 2, C & 4 -

- 1. Support the length extension of HKATS Root Symbol:
  - Renaming of Combined Commodity Code: FEXXX or SEXXX to FXXX or SXXX

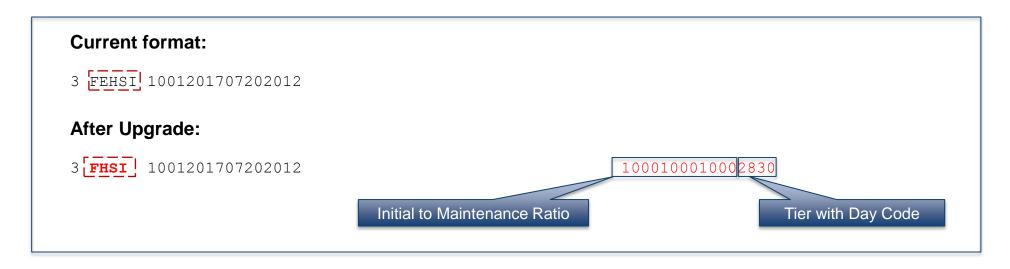
Current format:  • HKCC Products: 2 HK FEHSI 1HKDHFN HSI FUT C FEHSI 1001020001380010101A020101B 4 FEHSI 01  • SEOCH Products:	HSI	OOF	МНІ	FUT MHI 0000641	00F X	HS FUT	XHS	OOF
2 HK SEHKB OHKDHPN HKB PHY C SEHKB 1001020000455010101A020101B 4 SEHKB 01  After Upgrade:	НКВ	OOP		0000151	1			
• HKCC Products: 2 HK FHSI 1HKDHFN HSI FUT C FHSI 1001020001380010101A020101B 4 FHSI 101	HSI	OOF	MHI	FUT MHI	00F X.	HS FUT	XHS	OOF
• SEOCH Products: 2 HK SHKB OHKDHPN HKB PHY C SHKB 1001020000455010101A020101B 4 SHKB J 01	НКВ	OOP		0000151	1			



- RISK PARAMETER FILE (RPF) MODIFICATION (CONT'D)

#### Record Type 3 –

- 1. Support the length extension of HKATS Root Symbol:
  - Renaming of Combined Commodity Code: FEXXX or SEXXX to FXXX or SXXX
- Enhancement for products with flexible expiry date:
  - Initial to Maintenance Ratio (fields 69-80)
  - Tier with Day Code (fields 81-96)
  - Applicable for all contracts in the same Combined Commodity (eg. FHSI which comprises of HSI, MHI & XHS) with the flexible expiry date contracts





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#### - RISK PARAMETER FILE (RPF) MODIFICATION (CONT'D)

#### Record Type 5 -

- 1. Regrouping of Combined Commodity Group "CCG":
  - Map Combined Commodity <FDHH> and <FDHS> to CCG <DJI> and remove CCG <DHH> and <DHS>
  - Map Combined Commodity <SRKB> to CCG <HKE> and remove CCG <RSO>

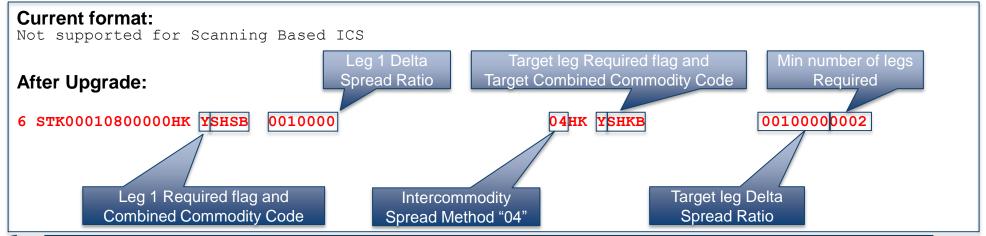
5 DHH	nat: FEDHH								
5 DHS	FEDHS								
 5 HKE	SEA50	SEAAC	SEABC	SEACC	SEAIA	SEALC	SEAMC	SEBCL	SEBCM
•••••									
5 HKE	SELNK	SEMEN	SEMGM	SEMSB	SEMTR	SENBM	SENCL	SENWD	SEPAI
5 HKE	SEPEC	SEPIC	SEPIN	SEPLE	SERFP	SESAN	SESHK	SESTC	SESWA
5 HKE	SETCH	SETRF	SEWHL	SEWWC	SEXAB	SEXBC	SEXCC	SEXIC	SEYZC
5 HKE	SEZJM								
5 RSO	SERKB								
5 [ <u>DJT</u> ]	de: <u>FDHH</u> ]	DHS]							
5 [DJI]  5 HKE		FDHS]	SABC	SACC	SAIA	SALC	SAMC	SBCL	SBCM
5 <u>[DJI ]</u> 	<u>FDHH</u>		SABC SMGM	SACC	SAIA SMTR	SALC SNBM	SAMC SNCL	SBCL SNWD	SBCM SPAI
5 [DJI] 5 HKE	FDHH SA50	SAAC				SNBM	SNCL		
 5 HKE  5 HKE	SA50	SAAC SMEN	SMGM	SMSB	SMTR			SNWD	SPAI



#### - RISK PARAMETER FILE (RPF) MODIFICATION (CONT'D)

#### Record Type 6 -

- 1. Support the length extension of HKATS Root Symbol:
  - Renaming of Combined Commodity Code: FEXXX or SEXXX to FXXX or SXXX
- 2. Support new margin offset method "Scanning Based Intercommodity Spread (ICS)"
  - Currently only Delta Based is supported i.e. Intercommodity Spread Method Code "Blank" or "01" (fields 89-90)
  - <u>Scanning Based ICS</u> with Intercommodity Spread Method Code "**04**" (fields 89-90) will be introduced, with the following RPF changes:
    - Non target leg X Required flag (fields 20-20, 38-38, 56-56, 74-74) and target leg Required flag (field 94-94)
    - Combined Commodity Code for non-target legs X (fields 21-26, 39-44, 57-62, 75-80) and for target leg (fields 95-100)
    - Delta/Spread Ratio for non-target leg X (fields 27-33, 45-51, 63-69, 81-87) and for target leg (fields 111-117) which are always set to 0010000
    - Min number of legs Required (fields 118-121)





#### - RISK PARAMETER FILE (RPF) MODIFICATION (CONT'D)

#### Record Type B & 8 -

- 1. Enhancement for products with flexible expiry date:
  - Add Day Code (Rec Type B: fields 25-26 & 34-35; Rec Type 8: fields 36-37 & 45-46)
  - Applicable for all contracts in the same Combined Commodity with the flexible expiry date contracts
- 2. Enhancement margin offset calculation precision:
  - Composite Delta (currently 3rd and 4th decimals filled with zero) will be filled with four decimal places (Rec Type 8: fields 97-101)

Current fo	rmat:	
B HK HSI	FUT201707 0000000000000000064100300003000000002739700274001000020170728	0000000
B HK HSI	OOF201707 201707 0000000000000000641003000030000000002739700274001000020170728	0000000
B HK HSI	FUT201708 0000000000000000064100300003000000011780800274001000020170830	0000000
B HK HSI	OOF201708 _ ; 201708 _ ; 00000000000700000641003000030000000011780800274001000020170830	0000000
81HK HSI	FUT 201708 00000000000000+00000+02137-02137-02137+02137+04273-04273-0427	3+
82HK HSI	FUT 201708 00000004273+06410-06410+06410+05769-05769+10000+0000	
81HK HSI	OOFC201708 201708 002640001223-01261+02480-00365-00177-02156+03934-02387-0065	
82HK HSI	OOFC201708 201708 3002640002432+05560-04511-01289+02472+05199-00742+05500+0012	
	<del></del>	
After Upgr	rade:	
B HK HSI	FUT201707 <mark>28</mark> 0000000000000000064100300003000000002739700274001000020170728	00000000
B HK HSI	OOF201707 <mark>28</mark> 201707 <mark>28</mark> 000000000000000000000000000000000000	0000000
B HK HSI	FUT201708 <mark>30    000000000000000000000000000000000</mark>	0000000
B HK HSI	OOF201708 <mark>30</mark> 201708 <mark>30</mark> 0000000000070000064100300003000000011780800274001000020170830	0000000
81HK HSI	FUT 20170828 0000000000000+00000+02137-02137-02137+02137+04273-04273-0427	<b>3</b> i
82HK HSI	FUT 20170828 0000000000000000000000000000000000	
81HK HSI	00FC201708 <mark>30</mark> 201708 <mark>30</mark> 002640001223-01261+02480-00365-00177-02156+03934-023 <u>8</u> 7-0065	/+
82HK HSI	00FC201708 <mark>30</mark> 201708 <mark>30</mark> 002640002432+05560-04511-01289+02472+05199-00742+055 <u>5</u> +0012	01040000495+



- RISK PARAMETER FILE (RPF) MODIFICATION (CONT'D)

#### Record Type T -

- 1. Support margin offset with multiple currencies:
  - Additional rows for exchange rate on the reverse currency pairs

#### **Current format:**

```
T CNYYHKDH0001152450
```

- T USD\$CNYY0006771227
- T USD\$HKDH0007803500

#### **After Upgrade:**

```
T CNYYHKDH0001152450
T CNYYUSD$0000147684
T HKDHCNYY0000867717
T HKDHUSD$0000128148
T USD$CNYY0006771227
T USD$HKDH0007803500
```

