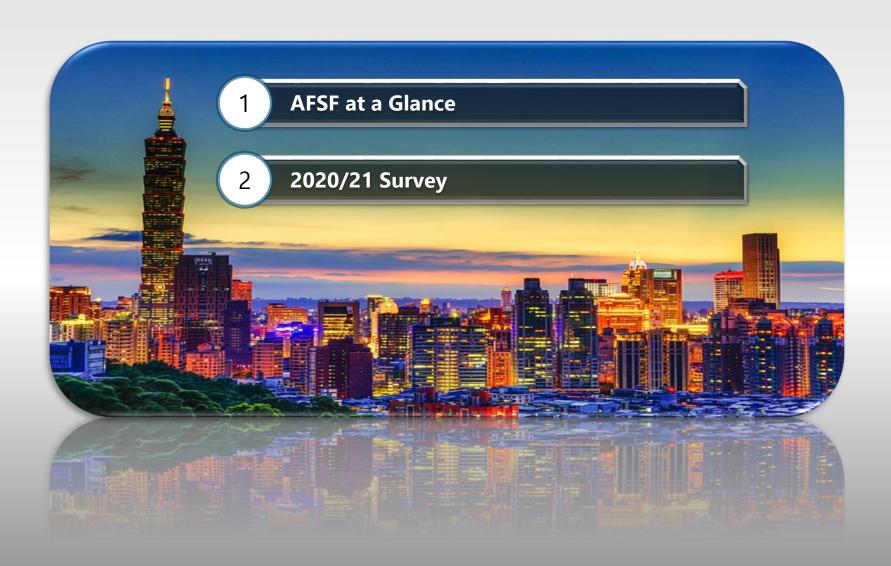
AFSF Session



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The Annual Theme



I. AFSF at a Glance

1. Overview

2. Progress

Overview of the Forum

The Beginning

Exchange of Information TF (Convener: JASDEC)

New Business Initiative TF (Convener: KSD)

Technical TF (Convener: NSDL)

Legal TF (Convener: CSDC)

Risk & Recovery Management TF (Convener: CDCPL)

Investor Services TF (Convener: TDCC) Asia Fund Standardization Forum (AFSF)

AFSF Inauguration Ceremony, ACG19, Taipei 4th November 2015





Progress of the Forum

Membership

Regular Members: 14 CSDs from 13 Economies

- 1 Bursa Malaysia Depository Sdn. Bhd. (Bursa) Malaysia
- (2) Central Depository Services India Ltd. (CDSL) India
- ③ Central Securities Depository & Clearing Corp. (CSDC) China
- (4) Central Securities Depository of Iran (CSDI) Iran
- (5) Hong Kong Monetary Authority (HKMA) Hong Kong
- (6) Japan Securities Depository Center, Inc. (JASDEC) Japan
- (7) Korea Securities Depository (KSD) Korea
- (8) PT.Kustodian Sentral Efek Indonesia (KSEI) Indonesia
- 9 National Securities Depository Ltd. (NSDL) India
- (10) Philippine Depository & Trust Corp. (PDTC) Philippines
- (11) Singapore Exchange (SGX) Singapore
- (12) Taiwan Depository & Clearing Corp. (TDCC) Taiwan
- (13) Thailand Securities Depository (TSD) Thailand
- (14) Vietnam Securities Depository (VSD) Vietnam



Advisory Members: 7 Global Fund Service Providers

- · Calastone
- · Clearstream
- · Deutsche Bank
- · DTCC
- · Euroclear Bank
- · Morningstar
- · SWIFT















AFSF Activities

2014

Oct. Initial proposal at the 18th ACG GM

2015

Jan. Establishment of AFSF framework

Jul. 2016 Survey (Asia Fund Market)

Nov. Inauguration of AFSF

2016

Jun. 1st AFSF Knowledge Sharing workshop Nov. Publication of Asia Fund Market Report

2017

Mar. 2017 Survey

Sept. 2nd AFSF Knowledge Sharing workshop

Dec. Publication of 2017 Annual Report

2018

Jul. 2018 Survey

Sept. 3rd AFSF Knowledge Sharing Workshop

Dec. Publication of 2018 Annual Report

2019

Jul. 2019 Survey

Nov. 4th AFSF Knowledge Sharing Workshop

2020

Jul. Publication of 2019 Annual Report

2021

Feb. Publication of 2020/21 Interim Report

May. 2020/21 Survey

Dec. Publication of 2020/21 Annual Report

2022

Jun. 5th AFSF Knowledge Sharing Workshop

II. AFSF Survey

- 1. Overview
- 2. Part I: Fund Market Update
- 3. Part II: Finding Asian Barriers

Overview of the Survey

Objective

- 1 To capture the latest market snapshots compared to the 2018 and draw out implications
- 2 To discover possible post-trade barriers in Asia via operational mapping and gap analysis

Outline

General Theme

Cross-border Trade Barriers: From Silos to Symphonies

Period

May 2021 ~ July 2021 (3 months)

Content

43 Items under 2 Parts

Participants

8 CSDs

I. Fund Market Update

- Market Size
- Distribution
- Fund by Type
- Fund Structure
- Trading Volume
- Central Processing Platform
- Fund Code Standardization

II. Finding Asian Barriers

- Account Management
- Order Processing
- Messaging
- Cut-off Time
- Net Asset Value (NAV)
- Decimalization

- Reporting
- Reconciliation
- Business Days & Holidays
- Business Hours
- Tax Treatment

Survey Topics

Market Size

- Trading Volume
- Distribution
- Central Processing Platform
- Fund by Type
- Fund Code Standardization
- Fund Structure

Preconditions:

- End of 2020 vs. end of 2017
- 2. Economies to be listed in alphabetical order
- 3. Cross-border Trading Terms
 - Outbound: Home-domiciled fund sold abroad
 - Inbound: Foreign-domiciled fund sold into your economy
 - Home Economy: Where a fund is domiciled
 - Host Economy: Where the foreign fund is sold

Fund Market Size

Q1. What is the total AUM of the fund market in your economy? (as of end of 2020)



Asian fund markets continuously growing with speed and strength

[Table 1. Fund Market Size by AUM]

F	Total AUM of Fund Market			
Economy	End of 2020	End of 2017		
Iran	\$80 bn (441%▲)	\$14.8 bn		
China	\$5.65 tn (217%▲)	\$1.78 tn		
Vietnam	\$19 bn (92.5% ▲)	\$9.87 bn		
Indonesia	\$57 bn (72.7%▲)	\$33 bn		
Taiwan	\$292 bn (Public funds only) (50.5% ▲)	\$194 bn		
Republic of Korea	\$577 bn (36.9%▲)	\$421.34 bn		
Japan	\$2.50 tn (35.1%▲)	\$1.85 tn		
Hong Kong	\$1.99 tn ⁵ (19.9%▲)	\$1.66 tn		
Thailand	\$155.43 bn (7.19% ▲)	\$145 bn		

Fund Market Size

Q2. What is the AUM-to-GDP ratio in your economy? (as of end of 2020)



Growing share of fund markets in GDP

[Table 2. Fund Market Size by AUM-to-GDP Ratio]

E	AUM-to-GDP ratio	
Economy	End of 2020	End of 2017
Hong Kong	580% (93%p▲)	487%
China	36.3% (22.8%p ▲)	13.5%
Republic of Korea	39% (9.6%p ▲)	29.4%
Japan	47% (9.1%p▲)	37.9%
Taiwan	42% (8%p ▲)	34%
Indonesia	5% (1.75%p ▲)	3.25%
Thailand	32% (1%p ▲)	31%
Vietnam	4.38% (0.1%p ▼)	4.48%
Iran	2.6% (65.3%p▼)	7.5%

Fund Market Size

Q2. What is the AUM-to-GDP ratio in your economy? (as of end of 2020)



Economy	Total AUM of Regulated Open-end Funds	GDP	AUM-to-GDP Ratio
U.S.	\$29.35 tn	\$15.19 tn	193%
Europe	\$21.8 tn	\$20.94 tn	104%
Asia-Pacific	\$8.8 bn	\$17.45 tn	50%

^{*} Source: 2021 Investment Company Fact Book and World Bank

Fund Market Size

Q3. How many funds are there in your market? (as of end of 2020)



Significant surge in some economies

[Table 3. Fund Market Size by Number of Funds]

F	Number of Funds	
Economy	End of 2020	End of 2017
China	104,731 (2,109% ▲)	4,742
Indonesia	3,143 (100%▲)	1,568
Vietnam	57 (58%▲)	36
Japan	13,498 (12%▲)	12,052
Republic of Korea	14,346 (12%▲)	12,848
Taiwan	1,991 (8%▲)	1,845
Thailand	1,616 (6%▲)	1,529
Iran	179 (4%▲)	172
Hong Kong	2,194 ⁶ (0.9% ▼)	2,215

Fund Market Size

Q7. How large is your public/private fund market? (as of end of 2020)



Rise of private asset investments

[Table 5. Number of Public and Private Funds]

Economy	Public Fund	Private Fund	
China	4,651 funds (\$3.05 tn, 54%)	96,818 funds (\$2.60 tn, 46%)	
Japan	5,982 Funds (\$14,585 bn, 58%)	7,516 Funds (\$10,448 bn, 42%)	
Republic of Korea	4,651 funds (\$253 bn, 38%)	9,695 funds (\$407 bn, 62%)	
Thailand	1,428 Funds (\$142.50 bn, 91.68%)	188 Funds (\$12.93 bn, 8.32%)	
Taiwan	1,991 funds (\$292 bn)	Data Unavailable	
Indonesia ¹²	1,136 Funds (\$30 bn, 53%)	1,430 Funds (\$27 bn, 47%)	
Hong Kong*	\$ 184.487 bn	Data Unavailable	
Iran	179 funds (\$80 bn, 100%) Data Unavailable		
Vietnam	Data Unavailable		

^{*} Only HK-domiciled authorized funds are applied. Non-HK domiciled authorized funds are excluded

Fund Market Size

Q6. What's the make-up of your public fund market in terms of fund type? (as of end of 2020)



Shifting through times especially during market volatility

[Table 4. Trading Volume by Fund Type]

Economy	Equity Fund	Bond Fund	Mixed Fund ⁷	MMF	FoF	Others
China	12%	16%	25%	46%	-	1%8
Hong Kong*	23.46%	18.64%	8.15%	3.70%	10.86%	35.19%
Indonesia	15%	17%	-	12%	-	56%9
Iran	40%	48%	-	11%	-	1%
Japan	87%	7%	-	-	-	6%10
Republic of Korea	28%	16%	-	6%	37%	13%
Taiwan ¹¹	24%	30%	8%	13%	-	25%
Thailand	15%	33%	0/0	7%	23%	22%
Vietnam	Data Unavailable					

^{*} Only HK-domiciled authorized funds are applied. Non-HK domiciled authorized funds are excluded.

Distribution

Q4. As for public funds, what is the predominant distribution channel in your economy? (as of end of 2020)



Either through broker-dealers or direct sales

[Table 6. Main Channel of Distribution]

Economy	Main Distribution Channel
China	Direct sales
Indonesia	Direct sales
Iran	Direct sales
Republic of Korea	Broker-dealers
Vietnam	Broker-dealers
Thailand	Direct sales, Broker-dealers
Hong Kong	Banks
Japan	Banks
Taiwan	Banks and Direct sales

Fund Structure

Q8. Please describe the changed market share by fund structure (if any) (as of the end of 2020).



Unit trust is the predominant form of funds in Asia

[Table 8. Market Landscape by Fund Structure]

Economy	Unit Trust	Investment Company		
China	100%	0%		
Indonesia	100%	0%		
Taiwan	100%	0%		
Vietnam	100%	0%		
Iran	100%	0%		
Republic of Korea	98.6%	1.4%		
Japan	94.9%	5.1%		
Thailand	2.04%	97.96%		
Hong Kong	Data	Data Unavailable		

Trading Volume

Q9. How big is the volume of domestic assets invested by domestic public funds? (as of end of 2020)



Mostly going inwards while some are looking outwards

[Table 9. Domestic Trading Volume]

Eastania	Trading Volume of 1	Domestic Public Funds	
Economy	Domestic Assets	Overseas Assets	
China	\$3.04 tn	\$12.05 bn	
Republic of Korea	\$198 bn	\$43 bn	
Thailand	\$62.57 bn	\$92.86 bn	
Indonesia	\$56 bn	\$ 0.892 mn	
Iran	\$80 bn	Data Unavailable	
Hong Kong	Data U	navailable	
Japan	Data Unavailable		
Taiwan	Data Unavailable		
Vietnam	Data Unavailable		

Trading Volume

Q11/13. How big is the inbound/outbound trading volume in your economy? (as of end of 2020)

Q12/14. How many funds are being imported to/exported from your economy? (as of end of 2020)



Still mostly imported from outside

[Table 10. Cross-border Trading Volume]

	Cross-border Trading				
Economy	Inbound		Outbound		
	No. of Fund	Trading Volume	No. of Fund	Trading Volume	
China ¹⁹	27	\$2.64 bn	22	\$8.26 bn	
Hong Kong ²⁰	1,384	\$1.81 tn	Data Unavailable (MRF: 29 funds)	Data Unavailable (MRF: \$5.82 bn)	
Republic of Korea	648 funds	\$29 bn	0	0	
Taiwan	1,011 funds	\$70 bn	0	0	
Thailand	0	0	1	Data Unavailable	
Vietnam	Data Unavailable \$28.5 bn Data Unavailable			available	
Indonesia ²¹	Data Unavailable				
Japan	Data Unavailable				
Iran					

Trading Volume

Q15. How big is the outbound trading volume under ARFP/ASEAN CIS/MRF in your economy? (as of end of 2020)



Asian passports are still taking baby steps except for MRF.

[Table 11. Passport-driven Trading Volume]

Faculty	Outbo	ound Trading Volume by I	Passporting Scheme
Economy	ARFP	ASEAN CIS	MRF
China	-	-	North-bound: 27 funds, \$2.64 bn South-bound: 22 funds, \$8.26 bn
Hong Kong	-	-	North-bound: 29 funds, \$5.82 bn South-bound: 50 funds, \$206 mn
Japan	0	-	-
Republic of Korea	0	-	-
Thailand	0	Data Unavailable	Data Unavailable
Indonesia	-	-	-
Iran	-	-	-
Taiwan	-	-	-
Vietnam	-	-	-

Central Processing Platform

- Q18. Do you have a central processing platform for domestic fund trading?
- Q18-1. Is it mandated by law to use the platform?
- Q18-2. If there is a central or major platform run by market player(s), what is its name and who is running it?
- Q19. If any, are you using a processing platform for cross-border fund trading?



Many are using central platforms for operational efficiency and safety.

[Table 12. CSD-run Platform and Private Platform]

Economy		CSD-run Platform		Private Platform
Leonomy	O/X	Name	Mandatory? (Processing Rate)	O/X
Indonesia ²⁴	0	S-Invest	Mandatory (100%)	X
Republic of Korea	0	FundNet	Optional (100%)	X
Iran	0	FundReg	Optional (100%)	X
Vietnam	0	Fund Services System	Optional (90%) * 10% processed by market players	0

Thailand	0	FundConnext	Optional (10%) * 90% processed by market players	X
Taiwan	0	Fundclear	Optional (5%) * 95% processed by market players	X
China	0	Central Data Exchange Platform (CDEP)	Mandatory (0%) * 100% processed by market players * Mandatory to collect and record trading results as back-up data	X
Hong Kong	0	CMU Fund Order Routing System (FORS)	Optional (Percentage Data Unavailable)	0
Japan	0	Book-entry Transfer System (BETS)	Optional (Percentage Data Unavailable)	O (e.g. Private Vendor Financial Network System)

Central Processing Platform

- Q20. What can your central processing platform do?
- Q21. What can your platform do for subscription & redemption between asset managers and distributors?
- Q22. What can your platform do for asset management between asset managers, brokers, and custodians?



Most platforms can process subscription and redemption orders, some can settle the institutional trades with brokers, and some function as a trading data back-up or central registry only.

[Table 14. Functions of CSD-run Platforms]

Economy	Scope of Platform Functions					
China	Post-settlement Data Storage - Data backup for trading results shared by TAs					
Indonesia	Subscription and Redemption Order processing Settlement of orders Management of participant accounts Corporate action processing (Distributed income of funds: Reinvestment or cash) Post-trade Service for Asset Management Confirmation and matching of trade (buy or sell) Delivery of management instruction					
Japan	Subscription and Redemption - Settlement of orders - Management of participant accounts Post-trade Service for Asset Management - Settlement of trades					
Republic of Korea	Subscription and Redemption Order processing Settlement of orders Management of participant accounts Corporate action processing Etc.					

	Post-trade Service for Asset Management - Confirmation and matching of trade (buy or sell) - Delivery of management instruction - Settlement of trade - Management of participant accounts - Corporate action processing - Etc.
Taiwan	Subscription and Redemption - Order processing - Settlement of orders - Management of participant accounts - Corporate action processing
Thailand	Subscription and Redemption Order processing Settlement of orders Management of participant accounts Corporate action processing
Vietnam	Subscription and Redemption Order processing Settlement of orders Management of participant accounts Corporate action processing Etc.
Iran	Unitholder registration - Management of participant accounts
Hong Kong	Subscription and Redemption - Order processing - Cash settlement through RTGS system

Fund Code Standards

- Q23. Is there a common code universally used for fund identification in your economy?
- Q24. If so, is the common code ISO-compliant (e.g. ISIN)?



Quite harmonized inside but still a long way to go for ISO compliance

• [Table 15. Common Codes and Compliance with ISO Standards]

	Con	nmon Code	
Economy	O/X	ISO- compliant?	Note
Hong Kong	O	O	-
Indonesia O		0	As a member of the Association of National Numbering Agencies (ANNA), KSEI has the responsibility to generate ISIN Code for all securities, including mutual funds. Also, KSEI as S-INVEST provider will generate local codes. Both codes are fund identifiers but not mainly used as the identifiers for fund trading. As for ETFs, the trading ticker code is created by IDX (Indonesia stock exchange)
Japan	0	O	-
China	0	X	μ.
Taiwan	О	X	For domestic funds, fund ID numbers are used as common codes, not ISINs. As for foreign-domiciled funds, the fund code provided by the master agent is used.
Thailand	O	X	-
Republic of Korea	0	X	Common codes are used by KSD to identify both listed and unlisted funds. But the codes are not ISO-compliant.
Vietnam	Δ	Δ	Common codes are used for ETFs and closed—end funds (listed on Exchange). As for open-end funds, proprietary codes are used. ISIN codes are only used for ETFs and closed-end funds.
Iran	X	X	-

Survey Topics

- Account Management
- Order Processing
- Messaging
- Cut-off Time
- Net Asset Value (NAV)
- Decimalization

- Reporting
- Reconciliation
- Business Days & Holidays
- Business Hours
- Tax Treatment

Cross-border Trade Barriers: *From Silos to Symphonies*

When we trade across our borders, will it be truly frictionless?

What stands in our way in the post-trade space?

What needs to be harmonized then?

Possible to take insights from MRF!

Inter-CSD Linkage for MRF							
	China (CSDC)		Harmonized!	Hong Kong (HKMA)			
Account structure	Segregated		Nominee	Nominee			
SWIFT	X		0 ←	0			
Cut-off	9pm (HK time)		HK cut-off extended	6pm (HK time)			
NAV disclosure	NAV(T-1) before 8am		NAV (T-2)	No NAV(T-1) before 8am			
Decimalization	Up to 2 decimal places		Up to 2 decimal places	Up to 6 decimal places			
Order Processing	Batch processing (Mandatory) Electronic order routing		Batch processing (Mandatory) Electronic order routing	Batch processing (Optional) Fax or electronic order routing			
BD & Holidays	Local BDs & holidays		Common BDs only	Local BDs & holidays			
Reporting Docs	Electronic docs		Electronic docs	Hardcopies still in use			
Reconciliation	Daily		Daily	Monthly			



Let's find gaps among us via operational mapping!

Gap Analysis for Better Interoperability and Harmonization

	China (CSDC)	Hong Kong (HKMA)		Others
Account structure	Segregated	Nominee		?
SWIFT	X	0		?
Cut-off	9pm (HK time)	HK cut-off extended		?
NAV disclosure	NAV(T-1) before 8am	NAV (T-2)	How to	?
Decimalization	Up to 2 decimal places	Up to 2 decimal places	Harmonize?	?
Order Processing	Batch processing (Mandatory) Electronic order routing	Batch processing (Mandatory) Electronic order routing		?
BD & Holidays	Local BDs & holidays	Common BDs only		?
Reporting Docs	Electronic docs	Electronic docs		?
Reconciliation	Daily	Daily		?



Account Management

Q1. Do you use nominee structure for account management?



Broadly used except for VN, IN, and IR

[Table 16. Account Structure]

Economy	Nominee	Note
Republic of Korea	O	All beneficiary certificates are registered under the ultimate unit holder's name in the account book of distributors while the total sum of units are usually recorded in the account book of KSD. Only when it comes to rare occasions like unit holder's meeting, holdings are recorded in the name of ultimate unit holders in KSD's account book.
Taiwan	0	Beneficiary certificates are registered under the ultimate unit holder's name when the funds are sold directly from the asset manager. If the funds are sold via bank channel, it's nominee structure. Either way, the accounts are under the book of TDCC.
Japan	O	All accounts are registered under the name of registrar (CSD, TA, etc.) as nominee.
Hong Kong	О	For the fund orders routing via CMU platform, the accounts are normally registered under the name of registrar as nominee (Tier 2). However, no holding of investmen fund units is recorded in the CMU system.
Thailand	О	Both nominee and segregated account structure are in place.
China	Δ	As for domestic trading, all accounts are registered under ultimate unit holder's name. However, China has adopted nominee account structure for MRF trading.
Vietnam	X	All accounts are registered under ultimate unit holder's name.
Indonesia	X	All accounts are registered under ultimate unit holder's name.
Iran	X	All accounts are registered under ultimate unit holder's name.



Order Processing

- Q2. How do you route orders from distributor to asset manager?
- Q3. Do you have to use batch processing for order routing?
- **Q4.** Are orders processed in a single batch before being sent to the fund side? Or in multiple batches? Or are orders simply routed on a transaction-by-transaction basis (with no batch processing)?



Quite much automated (e.g. batch processing, real-time processing, etc.)

[Table 17. Automation and Batch Processing for Order Treatment]

Economy	Automation	Batch Processing	Note	Vietnam	Δ	Mandatory Single batch	can process orders via STP or manually. Orders are routed via single batch processing in case of STP order processing. As for
China	О	Mandatory Single batch	Order routing is fully automated via platform. All orders are routed via single batch processing.		_	or one-by-one	manual order processing, orders are routed on a one-on-one basis.
Indonesia	О	Optional One-by-one	Order routing is fully automated on platform via file uploading and downloading. SFTP Procedures is currently under development.	Ianan	Δ	Optional Depending on funds	Order routing is partially automated via platform while the rest is manually handled via emails, faxes, etc.
			Order routing is fully automated by FundNet. Once placed into FundNet, all orders are automatically routed from distributor to asset manager via the central platform in a real-time manner.	Japan			
Republic of Korea	О	Optional Real-time	Batch processing is not mandatory. Plus, batch processing is not needed for order routing from distributors to the fund side since order routing is done on a real-time basis. Once a distributor places an order in FundNet, the corresponding asset manager can immediately confirm the receipt of the order via FundNet.	Theilend		Optional	Order routing via FundConnext is fully automated. However, as FundConnext is not the only channel for order routing, some orders are still being handled manually. Speaking for FundConnext, orders are sent to DAP from distributors real-
Taiwan	0	Optional One-by-one		Thailand	Δ	Multiple batches	time and then sent by FundConnext to AMCs in batch. However, for other channels, it depends on the service agreement between AMCs and distributors. Batch processing is not mandatory. FundConnext goes through nine rounds of batch
Hong Kong	0	Optional Real-time	Fund order routing is fully automated via CMU FORS. All orders are automatically routed from distributors to transfer agents/fund houses. CMU receives the fund orders from distributors by batch processing and then routes the orders to transfer agents on a real-time basis. Moreover, CMU receives the fund orders' acknowledgement and confirmations from transfer agents and further passes to the designated distributor on a real-time basis. CMU routes the fund orders on a real-time	Iran	X	Optional Single batch	processing depending on the fund cut-off time. The structure of funds in Iran is in a way that the fund itself carries out both distribution and management of assets and there is no other separate entity as distributor anymore. Subscription and redemption are both conducted by the fund and the information will then be sent to CSDI to be registered in the platform.

On the Fund Services platform, distributors and asset managers



Messaging

Q5/Q6. Does your economy use SWIFT messages for domestic/cross-border trading?



Low level of adoption

[Table 18. ISO Compliance of Messaging]

	ISO Cor	npliance			
Economy	Domestic	Cross- border	Note		
Japan	Δ	Δ	Combination of both SWIFT and local messages are used.		
Hong Kong	Δ	Δ	As for domestic trading via CMU FORS, SWIFT messaging is one of the channels for domestic trading. As for MRF via CMU FORS, SWIFT messaging is one of the channels for cross-border trading with local users. Once the local instructions are sent from domestic market participants, CMU FORS will convert them into readable format for mainland users, vice versa.		
Republic of Korea	X	0	As for domestic trading, trade instructions are communicated with either manual key-ins on FundNet (as for subscription/redemption) or non-ISO compliant local messages called CCF, or Computer-to-Computer Facility, (as for post-trade support for management). As for cross-border trading, instructions are mostly communicated via SWIFT messages. (Some are communicated via fax and email). Once the local messages (CCF) are sent from domestic market participants, KSD's FundNet translates them into SWIFT messages before shooting them to overseas institutions. The vice versa is also true when overseas market participants send SWIFT instructions to KSD (translated into CCF)		

nestic Trading

Thailand	X	Δ	As for FundConnext, SWIFT is used solely for cross-border trading. For other distributors, DAP does not know whether AMCs, custodians, or other participants use SWIFT or not. DAP assumes market participants may be using some interfaces.
China	X	Δ	CSDC does not use SWIFT messages, but local messages. As for MRF, CSDC has adopted SWIFT messaging.
Taiwan	X	X	
Vietnam	X	X	VSD does not use SWIFT messages, but local messages.
Indonesia	X	X	Currently there is no cross-border trading handled in S-INVEST
Iran	X	X	CSDI uses local messaging.



Cut-offs

Q7. When is the cut-off time for order processing (e.g. subscription, redemption)?



In need of mutual understanding

Dealing Cut-off Time

• [Table 19. Cut-off by Economy]

Economy	Cut-off (Local Time)	Note
Vietnam	T-1	Exact time for cut-off depends on funds.
China	3 pm	In Mainland China, the cut-off time for order processing is 3pm in local time.
Iran	3 pm	•
Thailand	3:30 pm	

Indonesia	4 pm		
Taiwan 5 pm		The cut-off time for order processing is 5pm in local time.	
Republic of Korea	6 pm	In Korea, the cut-off time for order processing is 6pm in local time. Distributors should place their orders in FundNet before 6pm.	
Hong Kong 6 pm		As for domestic trading, the operating hour for CMU FORS is from 8:30 am to 6:00 pm.	
Japan		It depends on funds.	



NAV Disclosure

Q8. When can I know yesterday's NAV (T-1 NAV)?



Mostly before 9am on TD

[Table 20. NAV Disclosure Timing]

Economy	NAV Disclosure (T-1 NAV)	Note		
Republic of Korea	By 7am (TD)	In Korea, if today is the trading day (TD), yesterday's NAV (T-1) is available at 7am in the morning.		
China	By 8am (TD)	-		
Iran	By 8am (TD)	-		
Thailand	By 9am (TD)	-		
Indonesia	By 9am (TD)	Before 9am of TD. Custodian bank should report NAV to media on T-1 night (around 7.30pm) so that the media will be able to publish the NAV on the morning newspaper/other media outlets on TD		
Vietnam	TD	Although NAV will be available in TD, the exact time for disclosure depend on funds.		
Taiwan	_	In Taiwan, there is no regulation on when the NAV shall be reported.		
Hong Kong	-	In Hong Kong, the announcement date of NAV (T-1) is stated in the fund documents.		
Japan	- The exact time for NAV disclosure depends on funds.			



Decimalization

Q9. How many decimal places are allowed for unit valuation?



In need of harmonization or mutual understanding

[Table 21. Decimalization by Economy]

Economy	Decimalization	Note
Vietnam	Up to 2 decimals	-
Thailand	Up to 4 decimals	-
Indonesia	Up to 4 decimals	-
Taiwan	Up to 6 decimals	-
Hong Kong	Up to 6 decimals	CMU FORS can support up to 6 decimal places for unit valuation.
China	Up to 8 decimals	-
Japan	-	Decimalization depends on funds.
Republic of Korea	X	Decimal place is not used for unit valuation (one unit is KRW1 when first issued). Every unit is only counted as whole number and it is unallowed to break down one unit into smaller decimals.
Iran	X	Decimal place is not used for unit valuation.



Reporting

Q10. Are documents from the fund side (on dividends or other fund information) shared with distributor in a digital format like PDF? Or still in a paper form?



Broad adoption of digital formats

• [Table 22. Accepted Form of Documents]





Economy	Document Sharing		Note			
•	Paper	Digital				
China	X	О	Only electronic documents are accepted.			
Iran	X	0	Only electronic documents are accepted.			
Vietnam	0	О	It depends on funds.			
Thailand	О	0	-			
Indonesia	0	0	-			
Taiwan	0	0	As for public funds, asset managers can upload fund information onto Fundelear distributors and investors could access the information in digital format on Funde			
Hong Kong	О	О	It depends on the mutual agreement between the distributors and the transfer agent. For MRF inbound trading arrangement, information about processing of fund account position reconciliation document (05), dividend information document (06), fund information document (07) for mainland funds are transmitted from ChinaClear to Hong Kong distributors in a digital format via CMU FORS system			
Japan	0	О	-			
Republic of Korea	0	О	As for public funds, asset management reports are sent to investors via mail or er Due to latest legal changes, before the end of 2021, the asset management report expected to be also available for the retail investors holding units of private fund			



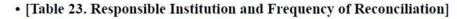


Reconciliation

- Q11. Who does reconcile the cash/securities balance? Q12. How often do you reconcile the cash/securities balance?



Quite quickly reconciled among key market players







Economy	Reconciled by How Often?		Note				
Indonesia	esia Custodians Daily		-				
Taiwan	Distributors Asset managers	Daily	-				
Japan	Distributors Asset managers Trustees CSD	tributors managers rustees Daily -					
Republic of Korea			Trustees should reconcile their balance with the one they see in the balance records of FundNet. Distributors (1st tier Account Management Institution) should reconcile their balance with the one they see in the FundNet balance records of KSD (2nd tier account management institution) on a daily basis.				
China	China TAs Asset managers		-				
Thailand	Thailand TAs		-				
Iran	Iran Asset managers Dail						
Vietnam	Asset managers	Each trading session of fund	-				
Hong Kong TAs -		-	TAs are responsible for the reconciliation of cash/ securities balance. Reconciliation frequency depends on the mutual agreement between distributors and TAs.				



BDs & Holidays

Q13. In cross-border trading, you need to decide whether to open for holidays in order to respect your targeted market's business day. Are you going to open for holidays if your targeted market is open for business? Or are you going to open for common business days only?



Common BDs only in general

• [Table 24. Trading Day for Cross-border Trading]

Eco	onomy	Trading Day (Cross-border)	Note				
Ta	niwan	Common BDs only	-				
Ja	apan	Common BDs only	-				
	public Korea	Common BDs only	As for KSD, we only open for common business days to support cross-border fund trading.				
C	hina	Common BDs only	-				
Th	ailand	Common BDs only	-				
Vie	etnam	Common BDs only	-				
I	long long	Common BDs only	As for MRF, CMU only opens for common business days (Hong Kong & Mainland).				
Ind	onesia	Undecided	Currently there is no cross-border trading in Indonesia. However, in case cross border-trading is available in the future, further analysis needed to decide the business day				
]	[ran	Undecided	-				





Business Hours

- Q14. As for domestic fund trading, what is your business hour?
 Q15. When it comes to cross-border trading, have you adjusted (or are you willing to adjust) your business hours to respect the time difference with your trading party?



In need of mutual understanding

• [Table 25. Business Hour by Economy]



Economy	Business Hours	Willing to change? (Cross-border)	Note
Taiwan	8:30am-5:30pm	No	The responsible department of TDCC usually opens from 8:30am to 5:30pm.
Hong Kong	8:30am-6pm	Yes	The operating hour for CMU FORS is from 8:30 am to 6:00 pm on Hong Kong business day. The operating hour is extended to 11:59pm only for MRF.
Vietnam	8am-5pm	Undecided	There is no cross-border trading yet.
Indonesia	8am-5pm	Undecided	The responsible department of KSEI usually opens from 8am to 5pm.
Thailand	8:30am-5pm	No	-
Republic of Korea	9am-6pm	No	The responsible department of KSD usually opens from 9am to 6pm and has no plan to change its 9-to-6 work schedule yet.
China	8:30am-5pm	No	Some duty personnel may work from 5pm to 8:30am.
Japan	9am-5pm	No	-
Iran	9am-5pm	Undecided	-





Tax Treatment

Q16. In case of domestic trading, who does the job of tax withholding on fund profits? Q17. In case of outbound trading, who does the job of tax withholding on fund profits?



In need of harmonization or mutual understanding

[Table 26. Tax Withholding Agent]

Economy	Tax Withho	lding Agent	Note			
Economy	Domestic	Cross-border	rvote			
Thailand	TAs Distributors	TAs	•			
China	Listed companies, l	Bond issuers, Banks	For the dividends and bonus shares obtained by the fund, the interest income of bonds and savings deposits, listed companies, bond-issuing companies and banks need to withhold and pay 20% personal income tax when paying the above income to the funds; Personal income tax and corporate income tax are temporarily not levied on the income obtained by investors from fund distribution.			
Japan	Distributors	Distributors	-			
Republic of Korea	Trustees Undecided		As for domestic trading of funds, it is trustees that perform tax withholding duties on the fund profits belonging to end-investors. As for outbound trading of home-domiciled funds, it is undecided yet who will do the tax withholding on fund profits belonging to the foreign distributor and end-investors.			

	ny			
(Hong Kong	TAs	N/A	TAs are responsible for the job of tax withholding on fund profits. In Hong Kong, for outbound trading of home-domiciled funds (MRF), the fund profits for mainland investors are not subject to tax for the time being.
	Vietnam	Asset managers	N/A	There is no cross-border trading yet.
	Indonesia	Custodians	N/A	
	Iran	Asset managers	N/A	
1	Taiwan	N/A	N/A	There is no withholding tax on domestic fund profits. There is no outbound trading yet.

This is where we are today

[Table 27. Inter-CSD Operational Mapping Results]

Economy		China	Hong Kong	Indonesia	Iran	Japan	Republic of Korea	Taiwan	Thailand	Vietnam
Account Management	Nominee	Δ	0	X	X	0	0	0	0	X
	Automation	Δ	0	Δ	X	0	0	О	0	Δ
Order Processing	Batch Processing	Mandatory Single batch	Optional Real-time	Optional One by one	Optional Single batch	Optional Depending on funds	Optional Real-time	Optional One by one	Optional Multiple batches	Mandatory Single batch & One by on
	Domestic	X	Δ	X	X	Δ	X	X	X	X
Messaging	Cross- border	Δ	Δ	х	X	Δ	0	X	Δ	Х
Cut-	off	3:00 PM	6:00 PM	4:00 PM	3:00 PM	-	6:00 PM	5:00 PM	3:30 PM	T-1
NAV Dise	closure	By 8am (TD)	-	By 9am (TD)	By 8am (TD)	-	By 7am (TD)	-	By 9am (TD)	TD
Decimali	zation	Up to 8 decimals	Up to 6 decimals	Up to 4 decimals	X	-	X	Up to 6 decimals	Up to 4 decimals	Up to 2 decimals
Reporting	Paper	X	0	0	X	0	0	0	0	0
Reporting	Digital	0	0	0	0	0	0	0	0	0
Reconciliation	Responsible Institution	TAs Asset managers	TAs	Custodians	Asset managers	Distributors Asset managers Trustees CSD	Trustees	Distributors Asset managers	TAs	Asset managers
	Frequency	Daily	-	Daily	Daily	Daily	Daily	Daily	Daily	Each trading session of fund
Trading	Days	Common BDs only	Common BDs only	Common BDs only	Undecided	Undecided	Common BDs only	Common BDs only	Common BDs only	Common BDs only
Business	As-Is	9am-3pm	8:30am- 6pm	8am-5pm	9am-5pm	9am-5pm	9am-6pm	8:30am- 5:30pm	8am- 3:30pm	8am-5pm
Hours	Willing to change?	No	Yes	Undecided	Undecided	No	No	No	No	Undecided
Tax	Domestic	Listed companies, Bond	TAs	Custodians	Asset managers	Distributors	Trustees	N/A	Asset managers	Asset managers
Treatment	Cross- border	issuers, Banks	N/A	N/A	N/A	Distributors	Undecided	N/A	N/A	N/A

Thank You

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