



Market Data Markets Division

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## Rundown

4:30 pm – 4:45 pm	Opening Remarks and Overview
4:45 pm – 4:50 pm	HKEX-IS Key Marketing Programmes
4:50 pm – 5:10 pm	HKEX-IS Customer-centric Market Data Compliance Programme
5:10 pm – 5:20 pm	HKEX Hosting Services
5:20 pm – 5:35 pm	Shanghai Stock Exchange Overseas Market Data Services By China Investment Information Services Limited
5:35 pm – 5:45 pm	Q&A
5:45 pm – 7:00 pm	Cocktail



### **AGENDA**

- 1 Opening Remarks and Overview Winnie Poon, Head of Market Data
- Key Marketing Programmes

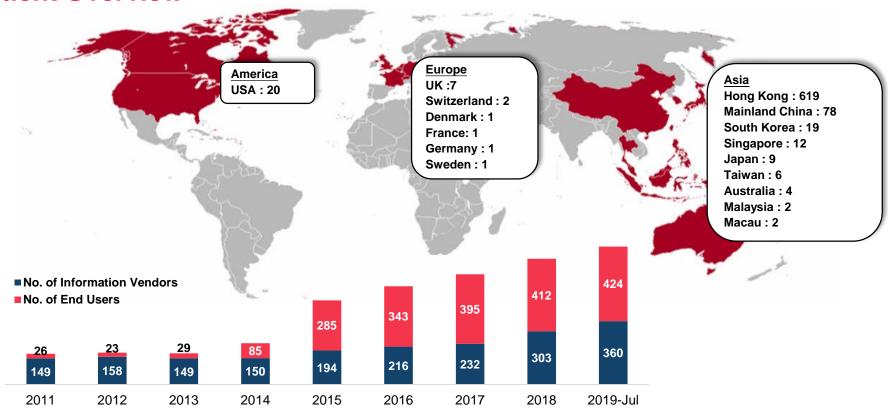
   Jin Qian, Head of Data Licensing and Marketing, Market Data
- Customer-centric Market Data Compliance Programme

   Lianna Liu, Head of Data Client Audit, Market Data
- Andy Lee, Head of Hosting Services, Information Technology Division
- Shanghai Stock Exchange Overseas Market Data Services

   Jane So, Head of Marketing, China Investment Information Services Limited



### **Client Overview**

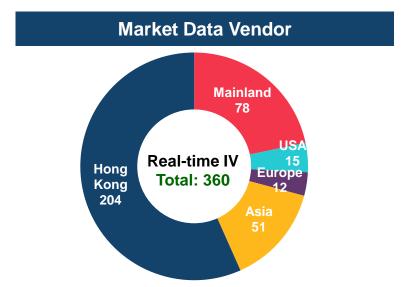




Market Data has over 700 Information Vendors and End-Users with countries of origin spanning across the globe

### **Client Overview (Real Time Data Clients)**

- Vendors come from different industry segments
- End-Users are mostly EPs



Information business	75
Exchange Participants & affiliates	168
Banks, buy-sides & other financial institutions	59
Mainland Brokers	25



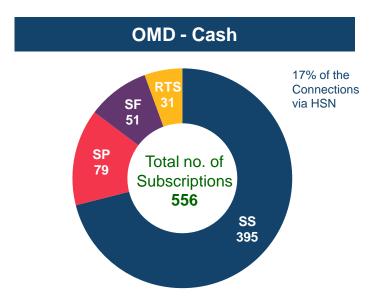
By Region



## **Market Data End-User Overseas** Hong **End-Users** Kong **Total: 424** 415 **Exchange Participants** 412 Non-Exchange Participants 12



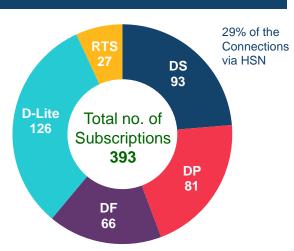
### **OMD Subscription Status of Direct Connection Clients**



SS: Securities Standard (12 Connections from MMDH)

SP: Securities PremiumSF: Securities FullTickRTS: OMD-C Additional RTS

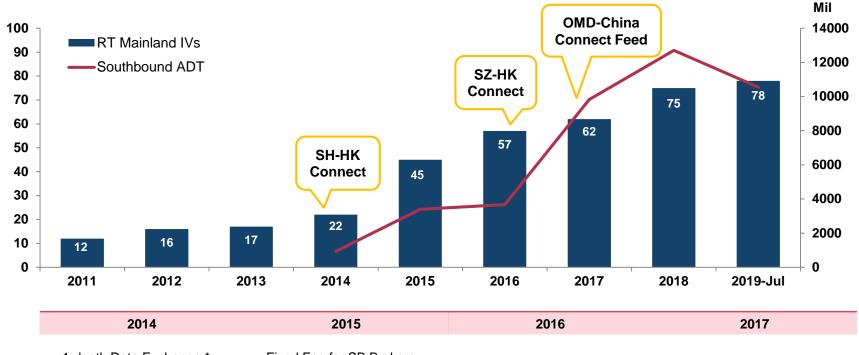
#### **OMD - Derivatives**



DS: Derivatives Standard
DP: Derivatives Premium
DF: Derivatives FullTick
D-Lite: Derivatives Lite (for EPs)
RTS: OMD-D Additional RTS



### **Stock Connect Related Initiatives**



- 1-depth Data Exchange \*
- Stock Connect Free Trial
- Volume Discount

- Fixed Fee for SB Brokers
- Daily Charge Service
- IIS Promotion

- One-year Fixed Fee
- Enhanced Volume Discount
- Mobile Application Service



## **Way Forward**



#### **China Anchored**

Continue our promotion in Mainland marketing to support Stock Connect

### **Technology Empowered**

Modernize our online distribution platform of data products & client interfacing service

### **Globally Connected**

- Promote global access to our data products with internet and cloud technology
- Diversify variety of data products to fit client demand from different segments around the globe



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## **Marketing Initiatives**

Cash

**OMD Free Trial Programme** 

**One-Year Fixed Fee Programme** 

Fixed Fee Programme on 5 Depths of Southbound Eligible Stocks

**Marketing Programme for Mobile Application Service** 

**Mainland China Discount Programme** 

**Derivatives** 

**OMD Free Trial Programme** 

Derivatives Market Data Distribution Partnership Programme

**Basic Market Price Service** 

**Daily Charge Service Programme** 

**Enhanced Volume Discount Scheme** 

Promotion Programme on Issuer Information Feed Service

**Basic Market Price Service** 

**Marketing Programme for New Derivatives Products** 



## **Marketing Initiatives - OMD Free Trial Programme**

- Three months of free data
- Corporate internal usage only



# OMD Real-time Datafeeds

- OMD Premium and FullTick datafeeds for both securities & derivatives markets
- Direct connection
- Waived Licence Fee, Connection Fee, Subscriber Fee
- ~ 90% conversion rate
- Historical Full Book for securities & derivatives markets (binary or CSV)
- Download from HKEX website
- Waived Subscription Fee
- 66 sets of data granted



Historical Full Book Data



### **Historical Data Products**

#### A variety of historical and reference data available via online subscription

#### **Order Book**

- Historical Full Book
- Trade File
- Trade Record

#### **Statistics**

- Month-end / Day-end Closing Data
- Short Selling Data

#### **Reference Data**

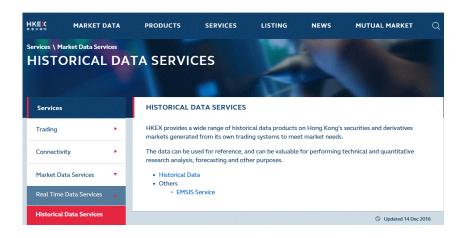
- Stock Master File
- Stock Static Data

#### **Corporate Documents**

- Annual Reports
- · Entitlement Records

#### **Shanghai and Shenzhen Connect**

- Monthly / Daily Statistics
- Northbound Eligible Stock List





## **Policy Updates**

The following policies are under review and updates will be provided in due course



**Basic Market Prices Service (2011): 53 participants** 

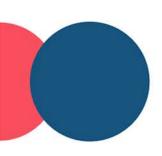


Marketing Programme for New Derivatives Products (2013): 58 participants



Marketing Programme for Mobile Application Service (2017): 61 participants





### Reach Us at

MarketData@hkex.com.hk



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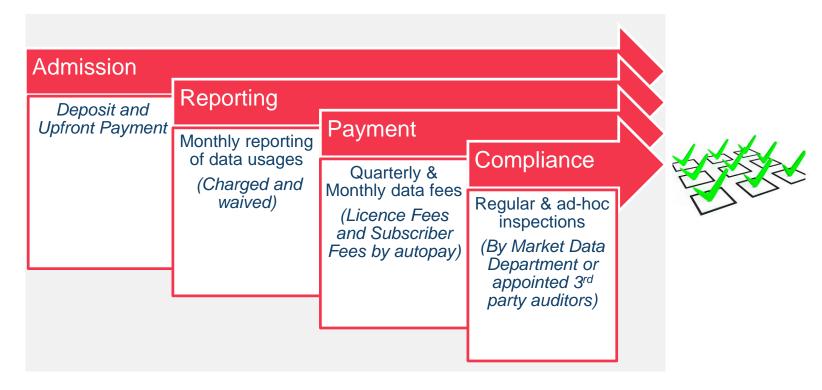
   Jane So, Head of Marketing, China Investment Information Services Limited



## **Market Data Compliance**







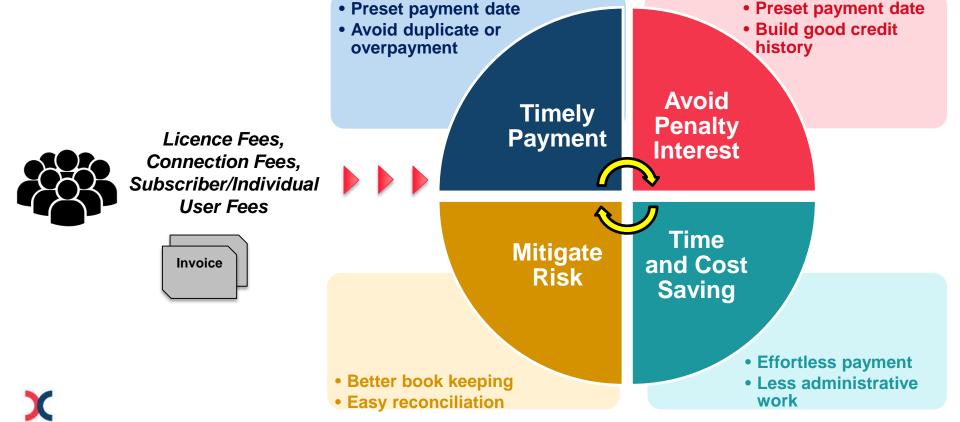


### **Customer-centric Initiatives**

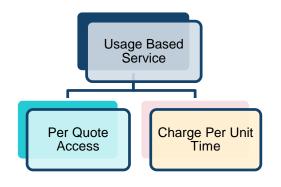
2018 2019 Dec Aug Introduced Autopay • On-site Inspection Arrangement Changed HSBC Bank iSurvey to be **Account for Payment** introduced Streamlined Quote **Meter Audit Report** submission **From Data** ...To Market Data requirement Reporting and Compliance Payment...

18

### **Autopay Arrangement**



## **Quote Meter Audit Report Submission Requirement**



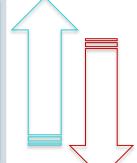
- Applicable to Licensees providing Usage Based Services
- To certify the quote metering system recording fee-liable access

Effective April 2019, Report Submission requirements are streamlined to allow:

- Submission on an annual basis
- Audit certified by a 3<sup>rd</sup> party auditor
- Audit Fee at Licensees' <u>own cost</u>
- <u>Possible overlapping</u> on-site inspection and quote meter audit



- One submission in first year after Licensees launched the service, no recurring submission
- Audit certified by a 3<sup>rd</sup> party auditor OR Internal auditor/ accountant (with an authorized signatory)



cost

efficiency



## **Introduction of iSurvey**

#### **□** Objective:

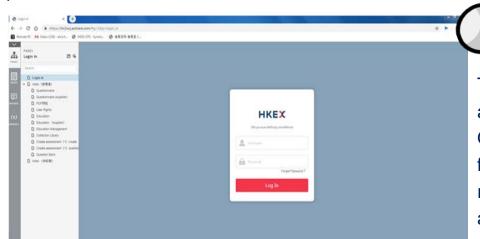
Helps minimize risk for Licensees in a proactive and cost-effective way

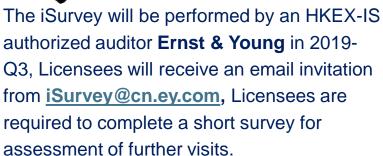
#### ☐ Communication:

• Enhance communication on market data policies with Licensees

#### ■ Self-Declaration:

Immediate review and easy assessment of compliance level to avoid potential violation









## 2019 Market Data On-site Inspection



By Data Client Audit Team/HKEX-IS appointed independent auditors will schedule a visit regarding:

- Data permissioning, billing and reporting systems
- Ensure accurate reporting of display and/or non-display data usages according to entitlements
- Technical control implemented to disallow concurrent access by same login ID
- Technical control implemented as required under specific <u>Marketing Programmes</u>



Audit trail maintained

### **Friendly Reminders**

**Summary Report** 



### **Detailed Subscriber Report**



- Fill in all the tabs in the Report (Summary, Detailed, Free Trial and Business Support Units) as applicable
- Report all entitled market data units (fee-liable or waived) with details (User ID, Name, Data Content, Subscriber Device, Date when market data was activated and terminated etc.)
- Total no. of units and fee payables declared in the Summary and Detailed Reports should sync up
- Maintain proper audit trails of the reported details
- Use HKEX-IS report template sent to you in the last week of each month



## **Friendly Reminders**

### **Specific Requirements under Marketing Programmes**

Restricted real-time L1/L2 Securities data access within Mainland China for Mainland China Discount, Mobile Application Service, Fixed Fee Service (5-depths, One-Year Fixed Fee)

Technical Control e.g. Subscriber address/IP

Technical Control e.g. Subscriber address/IP

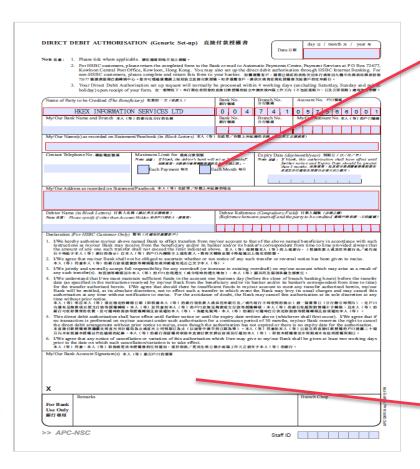
Restricted real-time L1/L2 Derivatives data access to 11 regions: Mainland China, Japan, Korea, Singapore, Taiwan, Australia, New Zealand, Malaysia, India, Thailand and Vietnam)

- Update of data per user's request but not streaming basis
- Restrict provision of more than 20 securities under top 20 lists / portfolio valuation etc.

Data Control e.g. no streaming



### Friendly Reminders



Open Limit

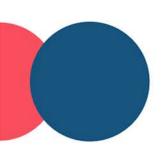
#### **SIGN AND MAIL / DELIVER**

**Authorisation Form (Download Link)** 

To: HKEX Finance Division 23/F, One Exchange Square 8 Connaught Place Central, Hong Kong

Same signature as your bank account signature





### Reach Us at

DataClientAudit@hkex.com.hk



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### The HKEX Data Centre

- Total floor area of 31,400 square meters
- State-of-the-art purpose built facility, owned and operated by HKEX
- Designed to meet Tier 4 and LEED Gold Rating specifications
  - Dual incoming utility power from separate substations
  - Dual TBE rooms and risers to support Telco diversity
- HKEX primary Enterprise Data Centre
  - Production site for Securities & Derivatives markets, Market Data and Clearing
- HKEX Hosting Services Data Centre
  - 2 floors dedicated
  - Support up to 1,200 racks at 6kVA/rack







#### Benefit to Users

- Highly resilient and secure data centre
- Low latency access to HKEX Securities and Derivative markets
- Low latency direct HKEX market data feeds
- Carrier neutral with broad telecommunications carrier access
- Interactive ecosystem environment supporting electronic trading





#### **Innovative Services**

Among the first exchange pioneering collaborative Hosting Services Ecosystem







**HOMSON REUTERS** 

List of Ecosystem Members

**Information Vendors** 

















#### **Financial Technology Service Providers**













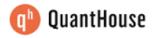














List of Ecosystem Members

#### **Network Service Providers**























**Connecting** opportunities















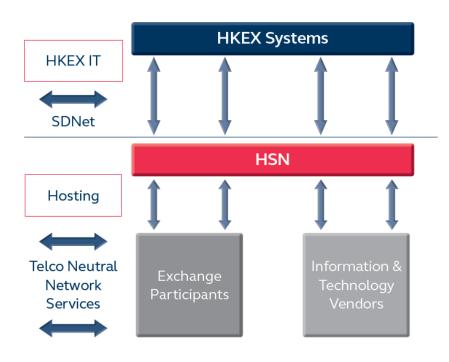
#### **Data Centre Services**

- Phase one with around 320 racks available for application
- Cold aisle containment with supplementary cooling to support 6kVA / rack
- 24x7 electrical and mechanical facility management and monitoring
- 24x7 on-site multi-level physical security management
- Remote hands service





### Connectivity Services

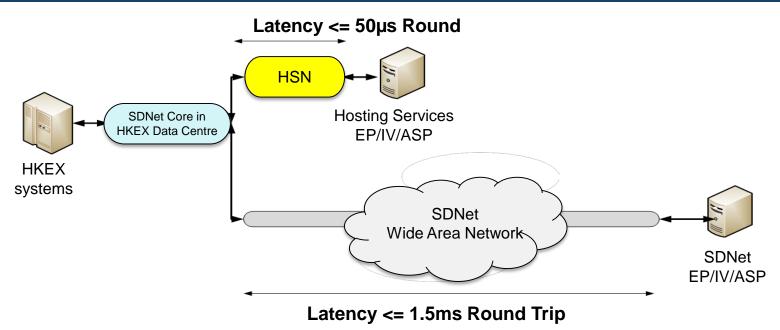


- Provides eligible users consolidated connection to HKEX market data, trading and clearing systems
- Cross Connect (XCN) puts ecosystem members in touch through direct copper or fiber connection



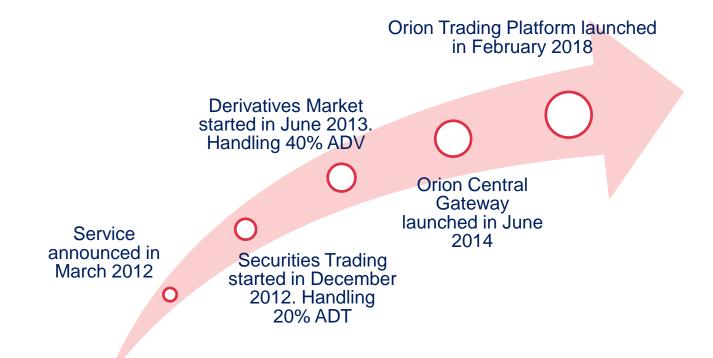
HKEX Service Network (HSN) Estimated Latency Benefit

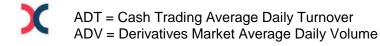
#### **HSN offers consolidated connection to HKEX Systems**





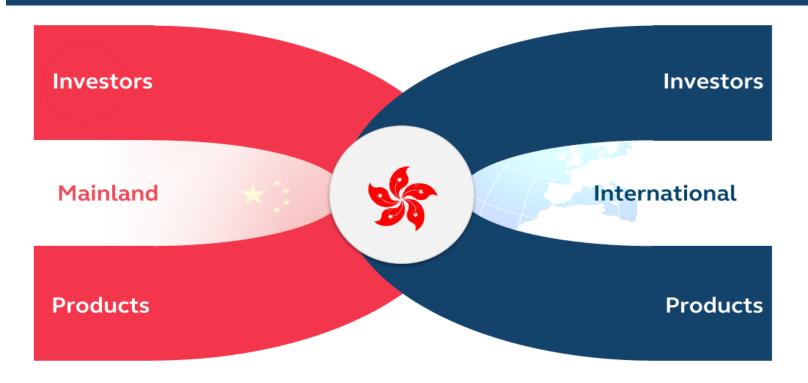
## **Hosting Services Progress Review**



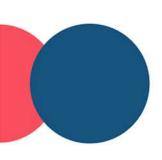


# **China Connectivity**

28 Exchange Participants connecting to Shanghai and Shenzhen Stock Connect through HSN







# Reach Us at

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# Shanghai Stock Exchange Overseas Market Data Services



# **Agenda**

1. About China Investment Information Services Ltd.

(CIIS)

- 2. CIIS Products
- 3. Connectivity Services

#### A. Background

- Established in Hong Kong in 1994
- Wholly owned subsidiary of Shanghai Stock Exchange (SSE)
- SSE market data business:
  - > SSE INFONET Co., Ltd. in charge of the licensing and operation of SSE market data in mainland China
  - > CIIS in charge of the licensing and operation of SSE market data outside mainland China, including Hong Kong, Macau and Taiwan

#### B. Overview of SSE INFONET Co., Ltd.

#### **Main Businesses**

- Handle licensing and development of SSE market data
- Develop and maintain SSE cloud platform
- Develop and maintain SSE website and mobile app
- Provide services for members, listed companies and investors





**SSE Mobile App** 





Roadshow

#### C. CIIS Products and Services

#### I. SSE Market Data Operation and Licensing in overseas market

- SSE Level-1 and Level-2 market Data
- SSE Fundamental data to overseas vendors and end users
  - ➤ Historical data, information disclosed by listed companies in XBRL format, listed company announcement, corporate action information, etc.

#### C. CIIS Products and Services

#### **II. Technical Connections for:**

- SSE market data
- Mainland China market data
- Overseas market data
- Market data via Cloud (*planning*)



#### C. CIIS Products and Services

#### III. CIIP

■ China Investment Information Platform (CIIP) aims to provide an aggregate business and technical platform for overseas information vendors and datafeed end users to receive mainland China investment market data, and mainland users to receive overseas investment market data.

#### **Overseas Exchanges**



#### **C. CIIS Products and Services**

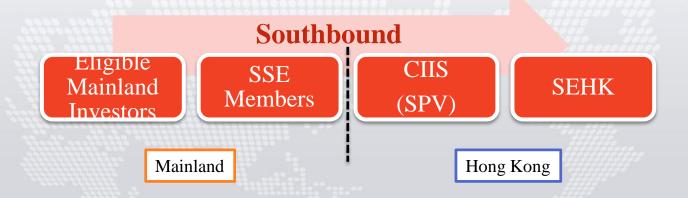
#### III. CIIP

# **Mainland Exchanges and Index Provider**



## E. SPV of Shanghai – Hong Kong Stock Connect

- CIIS acts as a Securities trading service company
- Serves as an order routing facilitator to place southbound orders



#### E. SPV of Shanghai – Hong Kong Stock Connect

- Mainland investors can trade eligible securities for trading under the southbound of Shanghai-Hong Kong Connect through CIIS
- Southbound orders are routed through CIIS to HKEx
- CIIS broker No.: 6996, 6997, 6998, 6999

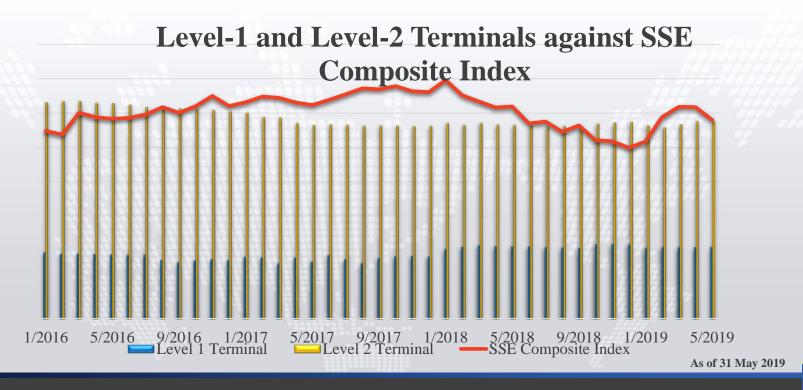
買入			6.170	6.180			賣出
6998	2015	中國投資	管信息	1409	7389	0696	5467
1477	8949	6999	6098	1453	7389	7183	7389
8908	8577	5883	9023	5334	7389	6389	3288
8279	9063	2311	8578	7389	7389	6387	9065
2979	8188	0316	8117	7389	7389	1453	0229
4409	8169	6098	8577	7389	3265	7367	5468
8169	8136	0690	8949	3347	9069	7364	0229
6996	4409	8908	5882	7389	0346	7364	5465
2310	2310	8597	6997	7389	5468	7359	0816
8575	1799	6998	1799	7389	7389	7389	7125

# A. Overview

	No. of Licensed Information Vendors
Real Time Level-1 Market Data	43
Real Time Level-2 Market Data	20
<b>Delayed Level-1 Market Data</b>	44
<b>Real Time China Indices Data</b>	54
<b>Delayed China Indices Data</b>	78

**As of 1 July 2019** 

#### A. Overview



#### A. Overview

#### **SSE Market Data Includes Cash and Derivative Market Data:**

# Cash Market Derivative ◆ Equities ♦ Stock Options □ A shares, B shares □ ♦ Bonds □ □ Government bond, local government bond, corporate bond, etc. ♦ Funds □ □ Open-ended fund, closed-ended funds, ETF, etc.

#### **B. SSE Market Data**

**Level-1 Vs Level-2 Market Data** 

Item	Level-1	Level-2	
Format	TXT/FAST	FIX/FAST	
Update Frequency	3 seconds	3 seconds	
Bandwidth Requirement	4Mbps	10Mbps	
Market Depth	5 levels	10 levels	
Order Information	Nil	Quantity of each of the top 50 orders at the best bid/offer price	
Tick by Tick	Nil	Yes	
Weighted Average Bid/Offer Price	Nil	Yes	
Stock Connect Quota Information	Nil	Real time southbound quota information	

#### **B. SSE Market Data**

#### **A-Share Data from Stock Connect VS from CIIS**

	From HKEx	From CHS		
	Stock Connect A-Share Data	Level-1 Market Data	Level-2 Market Data	
Market Depth	1	5	10	
Scope	Eligible stocks for northbound trading	All listed securities		
Eligible Parties	SEHK exchange participants (EPs)	Information vendors, financial institutions, etc. (Vendors)		
Redistribution	EPs could use the Stock Connect A-Share Data internally and for further dissemination to their trading clients.  EPs are NOT allowed to disseminate the Stock Connect A-Share Data to any third parties or permit their trading clients to further distribute the Stock Connect A-Share Data.	Redistribution is allowed as long as Vendors have a valid license.		

#### C. China Indices Data

#### All the indices created by SSE

> e.g. SSE Composite Index, SSE A Share Index, SSE B Share Index, SSE 180 Index, SSE 50 Index

#### All the indices created by CSI

> e.g. CSI 300, CSI 500

#### **Fundamental data**

- > e.g. Weighting of constituent stocks, free float shares information
- Separate license is required, similar to HKEx and HSI data with separate authorization

#### D. Fee Schedule

#### For Terminal Services with streaming services:

#### Redistribution of SSE Level-1 Market Data :

- Example: Category\_1L1
  - ➤ License fee: US\$40,000 per annum
  - > Subscriber fee\*:
    - US\$24 per subscriber unit per month
    - US\$10 per individual investor per month

#### Redistribution of SSE Level-2 Market Data

- Example: Category\_1L2
  - ➤ License fee: US\$60,000 per annum
  - ➤ Subscriber fee\*: US\$32 per subscriber unit per month

<sup>\*</sup>Minimum monthly subscriber fee is applicable.

#### D. Fee Schedule

#### For Terminal Services with streaming services:

#### **Redistribution of China Indices Data**

■ Example: Category\_61

License fee: US\$6,000 per annum

➤ Subscriber fee\*: US\$3 per subscriber unit per month

\*Minimum monthly subscriber fee is applicable.

CSI 300

3839.8863 +0.52%A

Last Update: 2019-07-25 11:22:32

**CSI 500** 

4893.3875 +0.42%

Last Update: 2019-07-25 11:22:32

**SSE 50** 

**2923.2050** +0.57%

Last Update: 2019-07-25 11:22:32

SSE Index

2933.0006 +0.33%A

Last Update: 2019-07-25 11:22:32

#### D. Fee Schedule

#### **For Open Channel Services:**

#### **Annual Subscriber Fee Package**

- Launched since March 2018
- Display SSE Level-1 market data and China indices on, for example, public website and mobile app
- No need to report the number of individual subscribers and pay the subscriber fees
- Package Fee (in addition to license fee):
  - ➤ PC Terminal (Per Application): US\$40,000 per annum
  - ➤ Website (Per website): US\$30,000 per annum
  - ➤ Portable Device (Per Application): US\$20,000 per annum



## E. Application

■ If you want to redistribute SSE and/or China indices data, please contact CIIS marketing department.

■ Application procedures are available on our website: www.ciis.com.hk



## E. Application

■ Fee schedule, application forms can be obtained from our website.



#### A. SSE Market Data

#### **SSE Level-1 Market Data**

- Internet or leased line connection
- Connect to 2 production sites (HKEX DC and Ap Lei Chau DC)
- For leased line connection, bandwidth requirement is 4Mbps

#### SSE Level-2 Market Data

- Leased line connection
- Connect to 1 test site (Wan Chai DC) and 2 production sites (HKEX DC and Ap Lei Chau DC)
- Vendors/End Users can apply cross connect services in HKEx DC
- Bandwidth requirement is 10Mbps

# A. SSE Market Data

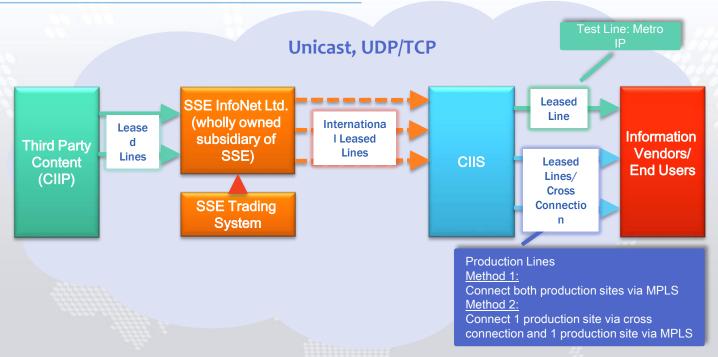
		Level-1 Market Data	Level-2 Market Data	
On 9 April 2019	Peak Bandwidth	1.1Mbps	3.2Mbps	
	No. of Transactions (Equities)	~19.31M		
The Highest No. of Transaction in 1 <sup>st</sup> Half of 2019 (Equities)		~26.96M (on 8 March 2019)		

#### **B.** CIIP Market Data

On 4 April 2019

Market Data	Peak Bandwidth	Trade Volume
CFFEx Level-2 Data	2.6Mbps	251,317 (Lot)
DCE Level-2 Data	5.3Mbps	10,517,666 (Lot)
ZCE Level-2 Data	1Mbps	7,998,692 (Lot)
SHFE Level-1 Data	1.2Mbps	10,911,530 (Lot)
SZSE Level-1 Data	2.5Mbps	44,066,762,020 (RMB) (Equities)

#### **SSE Level-2 Market Data Distribution Platform**





# Thank You!

**Contact Us: marketing@ciis.com.hk** 

