

**INFORMATION PAPER**  
Migration from MWS & AMS Terminals to  
New Securities Trading Device

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**April 2014**



Hong Kong Exchanges and Clearing Limited  
香港交易及結算所有限公司

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## SECTION 1 Introduction

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- 1.1** AMS Terminals were first introduced in 1993 to serve the needs of the entirely floor-based trading environment. In 1995, the same AMS Terminals were adapted for off-floor use, and Multi-Workstation System (MWS) was launched in 2000. These trading devices have stood the test of time; however the underlying technology has become obsolete. HKEx believes that with the maturity of the financial software industry, the terminal market is better served by specialized Independent Software Vendors (ISVs) rather than by HKEx. Given that much of the existing MWS hardware is reaching a point of costly refresh and that the underlying software is reaching end of life, now is an appropriate time to make that transition.
- 1.2** HKEx has selected a preferred ISV solution to replace the legacy AMS Terminals and MWS with a “New Securities Trading Device” (NSTD). The solution was selected based on functionality, cost and the quality of the support service provided by the ISV. HKEx has established a Master Agreement with the ISV which provides Exchange Participants (EPs) with a fixed cost for the solution, a standard set of terms and conditions, and a Service Level Agreement for a period of 5 years from the launch in 2014.
- 1.3** NSTD is developed by vendor ET Trade Limited and the associated support services will be provided by their group company ET Net Limited. NSTD will be offered to all EPs under standard terms and conditions under the brand name “ET Trade Speed Station”. The standard Subscription Agreement Template can be found in [Appendix A](#).
- 1.4** EPs currently using MWS or AMS Terminals have the following options:
- a) To migrate to ET Trade Speed Station
  - b) To migrate to another Broker Supplied System (BSS) solution
  - c) To de-install and not migrate to any other solution.

Due to end of support for current hardware and software, the existing devices will be supported until migration to ET Trade Speed Station completes; tentatively in Q1 2015 for MWS and Q3 2015 for AMS Terminals.

Emergency terminals currently provided by HKEx, which are also AMS Terminals, will be terminated when AMS Terminals are unsupported, tentatively in Q3 2015.

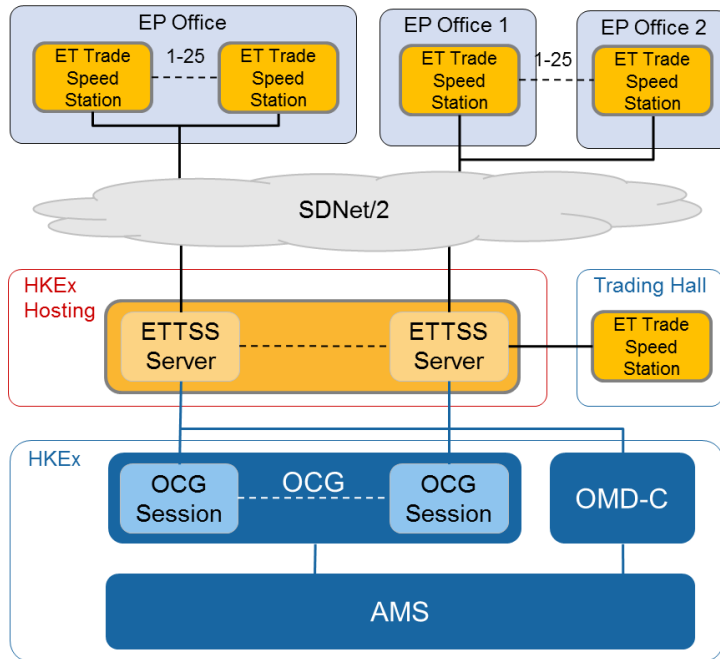
- 1.5** ET Trade Speed Station is a front end trading device. It is built to be compatible with HKEx's new core market platforms: HKEx Orion Central Gateway (OCG) and HKEx Orion Market Data for Cash Market (OMD-C).
- 1.6** EPs using ET Trade Speed Station must apply for at least one OCG trading session, and assign at least one throttle (entitled from a Stock Exchange Trading Right, relinquished dealing desk, or additional purchase) to each OCG trading session.
- 1.7** ET Trade Speed Station will support the HKEx customized keyboard with similar input sequences. It will also provide a choice of the same look and feel as MWS, or a new vendor-developed user interface. A functional comparison between ET Trade Speed Station, MWS and AMS Terminals can be found in [Appendix B](#).
- 1.8** All ET Trade Speed Stations will be in production trading mode. Hence, the concept of Standby Terminals will not be continued. Furthermore, ET Trade Speed Stations will not support on-line trading service and ORS service.
- 1.9** AMS Terminals at the Dealing Desks at the Hong Kong Exchange Trading Hall will be migrated to ET Trade Speed Stations separately. These will not be in the scope of this document.
- 1.10** This information paper contains the overview of the ET Trade Speed Station and the onboarding details.

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## SECTION 2 Overview of ET Trade Speed Station

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### 2.1 ET Trade Speed Station Architecture



For each EP, the ET Trade Speed Stations are normally grouped into one ET Trade Speed Station Server (ETTSS Server). Each ETTSS Server is connected to one dedicated OCG Trading Session. Details of each component are described below.

### 2.2 ET Trade Speed Station

ET Trade Speed Stations are based on standard Intel PCs running Microsoft Windows. EPs are required to provide the physical hardware and Microsoft Windows software for the ET Trade Speed Stations. Existing devices are compatible with ET Trade Speed Station so this does not necessitate additional cost.

- For MWS users, the MWS workstations can be re-used as ET Trade Speed Stations after installation of applicable software.
- For Second Terminals (i.e. AMS Terminals provided by the Exchange), EPs can choose to acquire the existing terminal hardware equipment (including PC, Microsoft Windows software, Monitor, Printer, and Customized Keyboard) from HKEx which can then be re-used as an ET Trade Speed Station after installation of applicable software and removal of WebSentry Security PCI card and Smart Card Reader.
- For Third Terminals (i.e. AMS Terminals owned by EPs), the existing terminals can

be re-used as ET Trade Speed Stations after installation of applicable software and removal of WebSentry Security PCI card and Smart Card Reader.

EPs also have the option to purchase new hardware and applicable software for ET Trade Speed Station directly from ET Trade Limited.

Please refer to **SECTION 4 Fees and Charges** for details.

### **2.3 ET Trade Speed Station Server (ETTSS Server)**

ET Trade Speed Station Servers are based on a centralized architecture, so no server hardware is required from EPs. The centralized ETTSS Production Server is located at the HKEx Hosting Data Centre, which is built to the highest standards of resilience and availability. It interfaces directly with OCG to access the AMS trading system, and directly with OMD-C to acquire real-time market data. ETTSS Server employs industry leading technology with high resiliency to provide robust market access to EPs.

Each EP would be assigned with a dedicated virtual server; transactions and data would not be shared between EPs.

One ETTSS server can support from 1 to 25 ET Trade Speed Stations. The ET Trade Speed Stations can be located at different physical locations. If an EP requires more than 25 ET Trade Speed Stations, then an additional ETTSS Server and corresponding OCG trading session is required.

There is no charge for additional ETTSS Servers; however additional OCG trading sessions would be subject to additional monthly OCG session fees. Please see next section for details on OCG trading sessions.

### **2.4 Orion Central Gateway (OCG)**

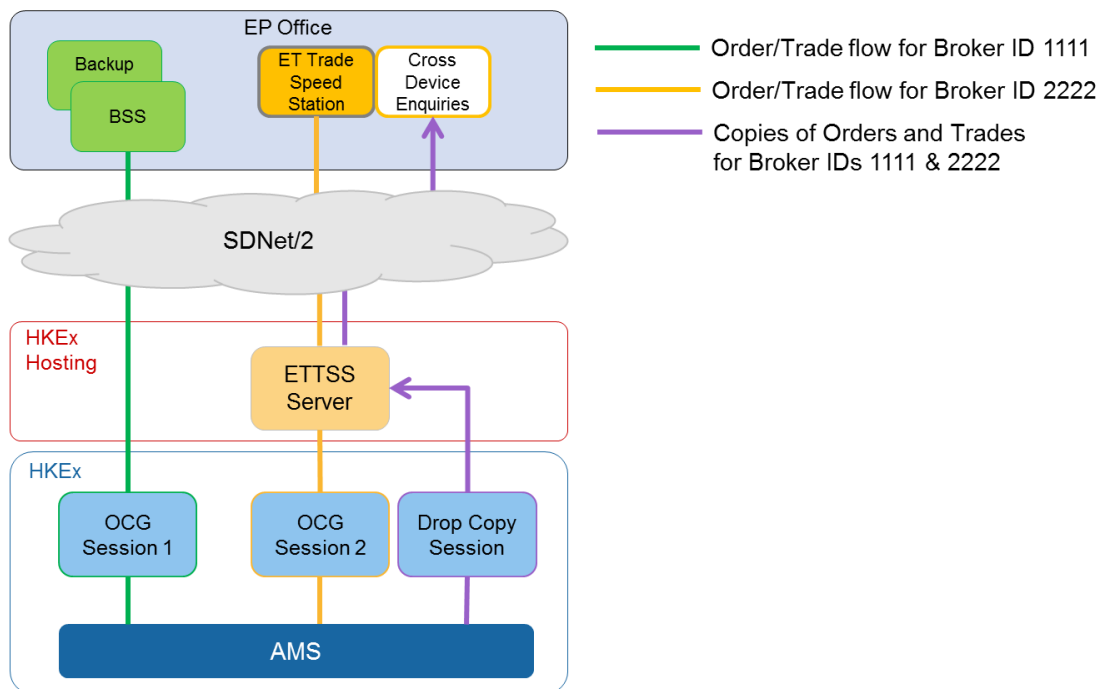
EPs must subscribe to one “OCG Trading Session” for each ETTSS Server. An OCG Trading Session is similar in concept to a connection to a physical OG in that:

- each OCG Trading Session will be associated with specific Broker ID(s) for order and trade submission;
- each OCG Trading Session will have its own login ID and password for authentication; and
- each OCG Trading Session is assigned a throttle rate.

ET Trade Speed Station and BSS cannot share the same OCG Trading Session. Each solution (ET Trade Speed Station or BSS) must control its own logon and connection to the respective OCG Trading Session.

Please refer to the OCG project corner (<http://www.hkex.com.hk/ocg>) for further details on OCG.

## 2.5 Cross Device Enquiries



Orders and trades transactions are confined to each OCG Session. If an EP uses ET Trade Speed Station together with other BSS solutions and wishes to perform cross device enquiries (i.e. enquiries of orders and/or trades across different Broker IDs of the same firm), then the EP has to subscribe to:

- 1) the ET Trade Speed Station “Cross Device Enquiries Module” for the function to view and cancel orders submitted by other devices (i.e. orders under different broker ID from another OCG Session of the same EP firm) from the ET Trade Speed Station;
- 2) an OCG “Drop Copy Session” for the real-time transaction feed of multiple broker IDs across devices to the ET Trade Speed Station.

Vice versa, if an EP wants to use a BSS to view or cancel orders submitted from ET Trade Speed Stations, a separate “Drop Copy Session” is required for the BSS. Please consult your BSS vendor for details.

Note:

- If an EP only has one OCG Session (i.e. using ET Trade Speed Station only, with no BSS), there is no need for the Cross Device Enquiries Module.
- If an EP has two or more OCG Sessions, a Drop Copy Session and Cross Device Enquiries Module are not necessary if the EP has no requirement to perform cross broker ID enquiries or cross broker ID single order cancellation.
- EPs can still perform a cross Broker ID mass cancel orders (for all orders under another broker ID, or for all orders under another broker ID for a specific security) without the optional Cross Device Enquiries Module.
- Drop Copy Session will be connected to ETTSS server via HKEx Service Network (HSN), EPs do not need additional network connection for the service.

## **2.6 Orion Market Data (OMD)**

ET Trade will manage the subscription to OMD on behalf of EPs. The ETTSS server receives market data directly from the OMD-C Securities Standard (SS) feed for display on the ET Trade Speed Stations. ET Trade will collect an Information Service Fee from EP for each ET Trade Speed Station on behalf of HKEx Information Services Limited.

Please refer to the OMD project corner (<http://www.hkex.com.hk/marketdata>) for further details on OMD.

## **2.7 SDNet/2 Circuit**

SDNet/2 is used to connect ET Trade Speed Stations to the ETTSS Server to provide reliable connectivity. Multiple ET Trade Speed Stations at the same site can share the same SDNet/2 circuit.

For 1 to 2 ET Trade Speed Stations located at the same site, a minimum 1Mbps single circuit is required.

For 3 to 25 ET Trade Speed Stations located at the same site, a minimum 3Mbps single circuit is required. Dual circuits are recommended for resiliency.

SDNet/2 circuits for ET Trade Speed Station are provided by two accredited vendors:

- Hong Kong Telecommunications (HKT) Limited (a.k.a. PCCW)
- Wharf T & T Limited.



## **2.8 Backup and Failover**

The ETTSS Server has built-in resiliency and disaster recovery capability. In the event of a hardware failure or a data centre site failure, the ET Trade Speed Stations can automatically re-connect to the backup servers in either the primary or Disaster Recovery data centres.

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## **SECTION 3    Onboarding Arrangements**

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### **3.1      Options upon Migration to ET Trade Speed Station**

EPs currently using MWS or AMS Terminals may choose from the following options:

- a) To migrate to ET Trade Speed Station
- b) To migrate to another BSS solution
- c) To de-install and not to migrate to any other solution.

To ensure EPs have no interruption of trading, migration to ET Trade Speed Station will be arranged in batches and completed as soon as possible before the existing devices will no longer be supported in Q1 2015 for MWS and Q3 2015 for AMS Terminals

### **3.2      Enrollment**

ET Trade Speed Station is scheduled to commence roll out in Q3 2014. EPs with MWS only or with both MWS and AMS Terminal will be required to confirm their decision to migrate to ET Trade Speed Station or de-install in Q2 2014. EPs with AMS Terminals only will be required to confirm their decision to migrate to ET Trade Speed Station or de-install in Q4 2014. Enrollment details will be available in due course. Late confirmation may lead to the delay of using ET Trade Speed Station while the existing devices are not supported.

### **3.3      Contract with ET Trade**

After enrollment, EPs who are subscribing to ET Trade Speed Station will be contacted by representatives from ET Trade. EPs must sign a Subscription Agreement with ET Trade prior to training and migration. The standard Subscription Agreement Template can be found in [Appendix A](#).

### **3.4      Migration Schedule**

EPs migrating to ET Trade Speed Station will be assigned into different migration groups depending on their device profiles with an objective to minimize the migration risk. Each EP will be notified of their migration schedule separately. Due to the end of support of MWS servers, migration of EP with MWS will be conducted first.

Different Migration Groups and Order of Migration:

- a) 1<sup>st</sup> batch - EPs with both MWS and AMS Terminals migrating to ET Trade Speed Station (Q3 to Q4 2014)
- b) 2<sup>nd</sup> batch - EPs with MWS migrating to ET Trade Speed Station (Q4 2014 to Q1 2015)
- c) 3<sup>rd</sup> batch - EPs with AMS Terminals migrating to ET Trade Speed Station (Q1 to Q2 2015)

### **3.5 Migration Approach**

For EPs with more than one devices (MWS/OG or AMS Terminal), there will be two rounds of migration. One or few devices will be migrated to ET Trade Speed Station in a Friday evening and subject to the Rollout test on Saturday, the next day. If successful, these ET Trade Speed Stations will be ready for production use on the next Monday. The remaining devices of the same EPs will be migrated to ET Trade Speed Station on any business day (after trading hours) thereafter.

For EPs with only one device, there will be one round of migration over a weekend.

The MWS/OG servers will be de-installed after the migration is completed.

For EPs with single MWS/OG with multiple workstations and multiple throttles, there are 2 options for migration:

- a) Full migration option:

All the throttles from the MWS/OG will be transferred to the OCG Session and all MWS workstations for the same MWS server will be converted to ET Trade Speed Stations in one go. EP can downgrade, subject to the existing contract terms with the SDNet/2 vendors, the SDNet/2 circuit bandwidth to 1Mbps or 3Mbps after the migration, depending on the total number of ET Trade Speed Stations at the site.

- b) Parallel option:

EPs can transfer one or more throttles to the OCG Session and convert one or more MWS workstations to ET Trade Speed Stations first. Both MWS and ET Trade Speed Station can run in parallel for a short period. The SDNet/2 vendors will temporarily upgrade the SDNet/2 circuit bandwidth during the parallel period to support both systems.

After all remaining throttles are transferred from OG to OCG and all MWS workstations are converted to ET Trade Speed Stations; EP can downgrade,

subject to existing contract terms with the SDNet/2 vendors, the SDNet/2 circuit bandwidth to 1Mbps or 3Mbps.

If there is only one throttle assigned to the OG/MWS, the throttle must be transferred to OCG for migration and EPs must take (a) the full migration option.

### **3.6 Training**

Classroom and online training will be provided by ET Trade to EPs who have enrolled for the migration. Training will be arranged according to the migration schedule for each EP, starting around one month prior to the migration.

### **3.7 SDNet/2 Re-configuration**

EPs should notify their SDNet/2 vendors for their migration plan, migration approach and bandwidth requirement and confirm re-configuration orders with the SDNet/2 vendors at least 4 weeks prior to the scheduled migration date.

Existing SDNet/2 circuits for MWS or AMS Terminals can be re-configured for migration to ET Trade Speed Station at a charge; new circuits are not subject to this charge.

For EPs with multiple MWS or both MWS and AMS Terminal, the number of SDNet/2 circuits and total bandwidth can be reduced after the migration.

For EPs who plan to take the parallel option for MWS migration, the SDNet/2 vendors will temporarily upgrade the circuit bandwidth for maintaining both MWS and ET Trade Speed Station during the parallel run period. They will resume the original bandwidth after migration of ET Trade Speed Station is completed.

Subject to the existing contract terms between EPs and the SDNet/2 vendors, EPs can further request the SDNet/2 vendors to downgrade the bandwidth to 1Mbps or 3Mbps after the migration, depending on the total number of ET Trade Speed Stations at the site.

Please see [Appendix C](#) for ET Trade Speed Station re-configuration charge and details.

### **3.8 ET Trade Speed Station Set up and Installation**

On the Friday prior to the first migration, the appointed vendor will come onsite to install the ET Trade Speed Station software on the pilot ET Trade Speed Station(s). For AMS Terminals, the vendor will also remove the WebSentry Security PCI card and Smart Card Reader from the PC.

For MWS, EPs should prepare network cabling for ET Trade Speed Station before migration. ET Trade support team will liaise with EPs prior to the migration. Please see [Appendix D](#) for the ET Trade Speed Station Migration Preparation Guide

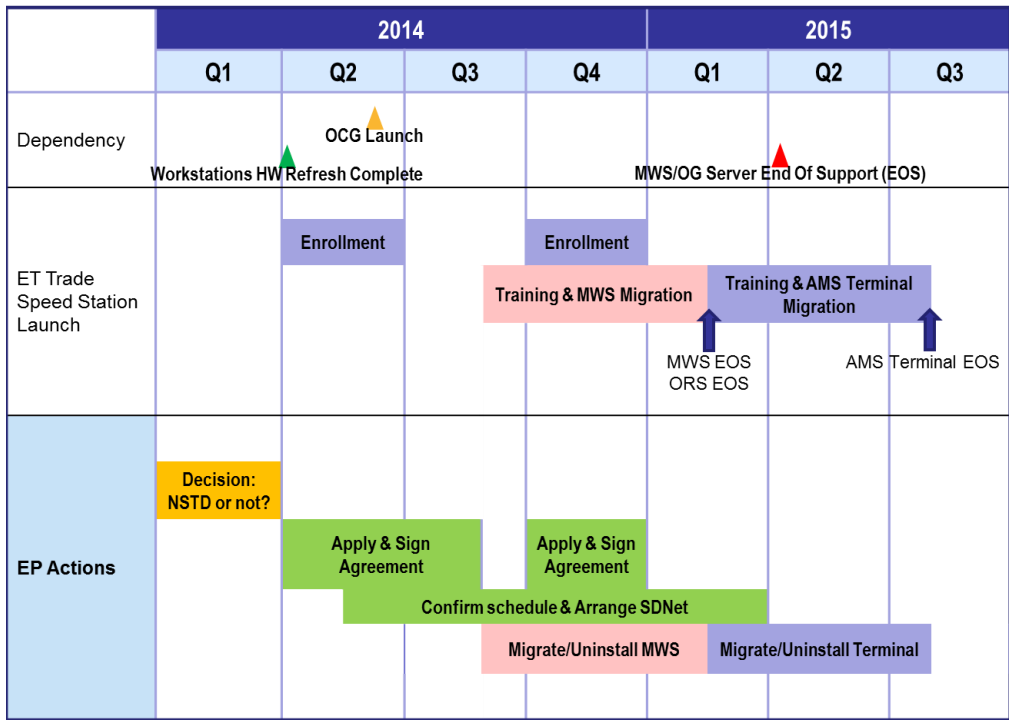
### **3.9 Rollout Test**

EPs must complete the Rollout Test and return the declaration form to HKEx for each new OCG session (i.e. for the pilot ET Trade Speed Station) on the Saturday of migration. The ET Trade Speed Station(s) will be ready for production use on the following business day.

Additional ET Trade Speed Stations for the same OCG session do not need to complete any Rollout Test.

### **3.10 Implementation Schedule**

The tentative implementation schedule of ET Trade Speed Station is summarized as follows:



## SECTION 4 Fees and Charges

### 4.1 ET Trade Speed Station Monthly Fees

Description	Monthly Fee (HKD)	Payable to
SDNet/2 circuit <sup>1</sup>	\$1,300 per 1Mbps single circuit \$2,400 per 3Mbps single circuit \$4,800 per 3Mbps dual circuit \$100 per network switch (optional)	PCCW or Wharf T&T
License Fee	\$800 per Terminal	ET Trade
Connection Fee	\$3,000 per site (waived for first site)	
Cross Device Enquiries Module (optional)	\$3,000 per EP	
HKEx Information Service Fee <sup>2</sup>	\$200 per Terminal	
Terminal hardware maintenance	Per service provider's quotation	
OCG Session Fee <sup>3</sup> (1-20 throttles)	\$2,000 (1 <sup>st</sup> Trading session for each EP) \$7,500 (additional session)	HKEx
Drop Copy Session (for Cross Device Enquiries option only)	No charge for 1 <sup>st</sup> Drop Copy Session for each EP \$4,500 (additional Drop Copy Sessions)	
Throttle Fee	\$480 per throttle (from Trading Right or Dealing Desk Relinquishment) \$960 per throttle (from additional purchase)	

<sup>1</sup> After migration to ET Trade Speed Station, if the existing SDNet/2 circuits are still within the minimum contract periods specified in the agreements with the SDNet/2 vendors, the EPs may still need to pay the rental of the original bandwidth (e.g. 10Mbps) until the contracts end. EPs are advised to request the SDNet/2 vendors to downgrade the bandwidth to the appropriate bandwidth 4 weeks before the contract expiry dates.

<sup>2</sup> On behalf of HKEx IS, HKEx would adjust billing in arrears for any free entitlement.

<sup>3</sup> OCG Backup Session Fees will be waived for ET Trade Speed Station.

## 4.2 One-time Migration Charges<sup>4</sup>

Description	One-time charge (HKD)
SDNet/2 Re-configuration	Please refer to <a href="#">Appendix C</a>
New OCG Session Administration Fee	Waived for MWS/AMS Terminal migration
<b>MWS Migration</b>	
OG/MWS de-installation	Standard OG/MWS: \$600 per package HA OG/MWS: \$750 per package
Migration <sup>5</sup>	\$700 per workstation
<b>Second Terminal Migration</b>	
Rental hardware <sup>6</sup> acquisition	\$3,400 per Terminal
Migration <sup>5</sup>	\$720 per Terminal
<b>Third Terminal Migration</b>	
Migration <sup>5</sup>	\$720 per Terminal

<sup>4</sup> For MWS and AMS Terminals not migrating to ET Trade Speed Station, EPs will bear the de-installation charges (if applicable).

<sup>5</sup> After MWS workstation and AMS Terminal migrated to ET Trade Speed Station, EPs will bear the hardware and software maintenance fee.

<sup>6</sup> Including PC, Microsoft Windows software, 19" Monitor, Printer, and Customized Keyboard in existing conditions.



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## **SECTION 5    Enquiries**

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**For queries and further clarification on the New Securities Trading Device, please write to:**

Hong Kong Exchanges and Clearing Limited  
6<sup>th</sup> Floor, Two Exchange Square  
8 Connaught Place  
Central  
Hong Kong

**Re: Information Paper on New Securities Trading Device**

**Or Email: [AMS3info@hkex.com.hk](mailto:AMS3info@hkex.com.hk)**

**For future project updates, please refer to NSTD project corner at HKEx website  
<http://www.hkex.com.hk/NSTD>**

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## Appendix A    Subscription Agreement Template

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ETSS Subscription  
Agreement Template.1

## Appendix B Functional Comparison of ET Trade Speed Station, MWS and AMS Terminal

Please refer to MWS User Guide on HKEx website for details on the below functions.

([http://www.hkex.com.hk/eng/market/sec\\_tradinfra/mws.htm](http://www.hkex.com.hk/eng/market/sec_tradinfra/mws.htm))

Functions in MWS / AMS Terminal		Functions in ET Trade Speed Station	
<b>All Users Functions</b>			
	Trader Logon	✓	User Login
	Maintain Settings	✓	User Preference
	Select Printer (change default printer)	✓	User Preference
	Trader Logoff (temporary)	✓	User Logoff
	Trader Logoff (permanent)	✓	OCG Logoff
	Security Enquiry	✓	Security Enquiry
	News Pop-up Window	✓	News Pop-up Window
	Linked Securities Pop-up Window	✓	Linked Securities Pop-up Window
	Miscellaneous Pop-up Window	✓	Miscellaneous Pop-up Window
	Security Wide Enquiry	✓	Security Wide Enquiry
	Odd Lot / Special Lot Market Enquiry (Static)	✓	Odd Lot / Special Lot Market Enquiry (Static)
	Text Enquiry	✗	Index Interval Enquiry
	Red Page Recovery	✓	Red Page Recovery
	Multiple Security Enquiry	✓	Multiple Security Enquiry
	Client Information Enquiry (Static)	✓	Client Info (Static)
	Price Movement Enquiry (Static)	✗	Replaced by Price Charts
	Risk Position Enquiry (Static)	✓	Client Info (Static)
	User Messages Enquiry	✓	User Messages Enquiry
	Purchase Review Enquiry (Static)	✓	Purchase Review Enquiry (Static)
	Mark Purchase	✗	-
	Linked Derivative Warrants Enquiry	✓	Linked Derivative Warrants Enquiry
<b>Trader Functions</b>			
	Clear Screen	✓	Clear Screen
	Input Bid Order (for limit order only)	✓	Input Bid Order (for limit order only)
	Input Ask Order (for limit order only)	✓	Input Ask Order (for limit order only)
	Input Bid Order (for all order types)	✓	Input Bid Order (for all order types)
	Input Ask Order (for all order types)	✓	Input Ask Order (for all order types)
	Outstanding Orders and Requests Enquiry (all securities)	✓	Outstanding Order Enquiry
	Outstanding Orders and Requests Enquiry (both bids & asks)	✓	Outstanding Order Enquiry
	Outstanding Orders and Requests Enquiry (bids or asks only)	✓	Outstanding Order Enquiry
	Trader Acceptance (forward or reject) – for ORS	✗	-
	Outstanding Orders Enquiry (all securities)	✓	Outstanding Order Enquiry
	Outstanding Orders Enquiry (both bids & asks)	✓	Outstanding Order Enquiry
	Outstanding Orders Enquiry (bids only)	✓	Outstanding Order Enquiry
	Outstanding Orders Enquiry (asks only)	✓	Outstanding Order Enquiry
	Order Status Enquiry (all securities)	✓	Outstanding Order Enquiry

Order Status Enquiry (both bids & asks)	✓	Outstanding Order Enquiry
Order Status Enquiry (bids only)	✓	Outstanding Order Enquiry
Order Status Enquiry (asks only)	✓	Outstanding Order Enquiry
Cancel Order	✓	Cancel Order
Modify Order	✓	Modify Order
Trader Bulk Cancel (both bids & asks)	✓	Trader Bulk Cancel (both bids & asks)
Trader Bulk Cancel (bids only)	✓	Trader Bulk Cancel (bids only)
Trader Bulk Cancel (asks only)	✓	Trader Bulk Cancel (asks only)
Order Enquiry by Execution Status (Static)	✓	All Order Enquiry (real-time)
Order Activity Enquiry (Static)	✓	Order Activity Enquiry (Static)
Input Odd Lot / Special Lot Bid	✓	Input Odd Lot / Special Lot Bid
Input Odd Lot / Special Lot Ask	✓	Input Odd Lot / Special Lot Ask
Odd Lot / Special Lot Orders Enquiry (Static)	✓	Odd Lot / Special Lot Orders Enquiry (Static)
Cancel Odd Lot / Special Lot Order	✓	Cancel Odd Lot / Special Lot Order
Input Sale (manual)	✓	Input Sale (manual)
Input Overseas Sale	✓	Input Overseas Sale
Input Pre-Opening Sale	✓	Input Pre-Opening Sale
Input Odd Lot / Special Lot Sale	✓	Input Odd Lot / Special Lot Sale
Input Odd Lot / Special Lot Sale (semi-automatic)	✓	Input Odd Lot / Special Lot Sale (semi-automatic)
Rejected Sales Enquiry (Static)	✓	Rejected Sales Enquiry (Static)
Input Overseas Purchase	✓	Input Overseas Purchase
Input Odd Lot / Special Lot Purchase (semi-automatic)	✓	Input Odd Lot / Special Lot Purchase (semi-automatic)
Reject Purchase	✓	Reject Purchase
Trades Enquiry (all trades)	✓	Trades Enquiry (all trades)
Trades Enquiry (both purchases & sales)	✓	Trades Enquiry (both purchases & sales)
Trades Enquiry (purchases only)	✓	Trades Enquiry (purchases only)
Trade Enquiry (sales only)	✓	Trade Enquiry (sales only)
Modify Trade Classification	✗	-
On-line Trade Journal Enabled / Disabled	✓	On-line Trade Journal Enabled / Disabled
Price Warning Mechanism (for order input with security nominal price not available)	✓	User Messages Enquiry (single confirmation)
Price Warning Mechanism (for order input with price warning)	✓	User Messages Enquiry (single confirmation)
Price Warning Mechanism (for order input with consideration warning)	✓	User Messages Enquiry
Price Warning Mechanism (for trade input with security nominal price not available)	✓	User Messages Enquiry
Price Warning Mechanism (for trade input with price warning)	✓	User Messages Enquiry
Price Warning Mechanism (for trade input with consideration warning)	✓	User Messages Enquiry

	Price Warning Mechanism (for odd lot / special lot order input with consideration warning)	✓	User Messages Enquiry
	Price Warning Mechanism (for odd lot / special lot trade input with consideration warning)	✓	User Messages Enquiry
	Price Warning Mechanism (for modify order with security nominal price not available)	✓	User Messages Enquiry
	Price Warning Mechanism (for modify order with price warning)	✓	User Messages Enquiry
	Price Warning Mechanism (for modify order with consideration warning)	✓	User Messages Enquiry
	Request Queuing Enquiry (Trader)	✗	Partial replaced by All Order Enquiry (real-time)
	Order Summary Enquiry (Static) (AMS Terminal Only)	✗	Partial replaced by All Order Enquiry and Order Summary Enquiry
<b>Supervisor Functions</b>			
	Trading System Logon	✓	OCG Logon
	Trading System Logoff	✓	OCG Logon
	Host Password Change	✓	OCG Password Change
	MWS Maintenance	✗	System parameter maintenance (some settings)
	Stock Group Maintenance (view)	✗	-
	Stock Group Maintenance (new)	✗	-
	Stock Group Maintenance (modify)	✗	-
	Stock Group Maintenance (delete)	✗	-
	Stock Maintenance (view)	✗	-
	Stock Maintenance (modify)	✗	-
	User Maintenance (view trader)	✓	User Maintenance
	User Maintenance (view supervisor)	✓	User Maintenance
	User Maintenance (view administrator)	✓	User Maintenance
	User Maintenance (new trader)	✓	User Maintenance
	User Maintenance (new supervisor)	✓	User Maintenance
	User Maintenance (new administrator)	✓	User Maintenance
	User Maintenance (modify trader)	✓	User Maintenance
	User Maintenance (modify supervisor)	✓	User Maintenance
	User Maintenance (modify administrator)	✓	User Maintenance
	User Maintenance (delete)	✓	User Maintenance
	Client Maintenance (view)	✓	Client Maintenance
	Client Maintenance (new)	✓	Client Maintenance
	Client Maintenance (modify)	✓	Client Maintenance
	Client Maintenance (delete)	✓	Client Maintenance
	Client Transfer	✓	Client User Setting
	Trader Global Limit Settings Maintenance	✓	System Parameter Maintenance
	Client Global Limit Settings Maintenance	✓	System Parameter Maintenance
	Currency Maintenance	✓	Currency Maintenance
	Order Monitoring and Authorisation	✗	Replaced by CC Approve
	Broker Bulk Cancel (both bids & asks)	✓	Broker Bulk Cancel
	Broker Bulk Cancel (bids only)	✓	Broker Bulk Cancel

	Broker Bulk Cancel (asks only)	✓	Broker Bulk Cancel
	Broker Order Activity Enquiry (Static)	✘	Partial replaced by Order Activity Report (Static)
	Cross Trading Device Orders Enquiry (Static)	✓	Cross Trading Device Orders Enquiry (Static)
	Cross Trading Device Trades Enquiry (Static)	✓	Cross Trading Device Trades Enquiry (Static)
	Cross Trading Device Cancel Orders	✓	Cross Trading Device Cancel Orders
	Central Trade Feed Enquiry (Static)	✘	-
	Enquiry of Authorisation Audit Trail (view)	✓	Audit Trail Enquiry
	Enquiry of Authorisation Audit Trail (print)	✓	Audit Trail Enquiry
	Acknowledge Purchase	✓	Acknowledge Purchase
	Detailed Order and Matched Trade Enquiry	✓	Outstanding Order Enquiry
	Security Price Enquiry Registration and Deregistration	✘	-
	Security Price Enquiry Activation and Deactivation	✘	-
	ORS Client Assignment and De-assignment	✘	-
	ORS Client Activation and Deactivation	✘	-
	Force Trader Logoff	✓	Logon Status
	Grant Access	✓	User Hierarchy
	Revert Access	✓	User Hierarchy
	Request Queuing Enquiry (Supervisor)	✘	Partial replaced by Outstanding Request Enquiry
	Outstanding Orders and Requests Enquiry (Supervisor) (all securities)	✓	Outstanding Order Enquiry
	Outstanding Orders and Requests Enquiry (Supervisor) (both bids & asks)	✓	Outstanding Order Enquiry
	Outstanding Orders and Requests Enquiry (Supervisor) (bids or asks only)	✓	Outstanding Order Enquiry
	Audit Trail Enquiry (view)	✓	Audit Trail Enquiry
	Audit Trail Enquiry (print)	✓	Audit Trail Enquiry
	Order & Trade Information Re-attachment	✘	-
<b>Administration Functions</b>			
	Start of Trading	✓	Start of Trading
	Data Exchange	✓	Data Exchange
	End of Trading	✓	End of Trading
	Unlock User ID	✓	User Maintenance
	Backup	✘	Replaced by Auto Backup
	Restore	✘	Call ET Trade to restore
	Audit Trail Enquiry (view)	✓	Audit Trail Enquiry
	Audit Trail Enquiry (print)	✓	Audit Trail Enquiry
	Select Printer (add printer)	✓	User Preference
<b>Others</b>			
	Central Trade Feed (real-time) <sup>7</sup>	✘	
	End of Day Trade file	✘	File would be distributed through HKEx Electronic Communication Platform

<sup>7</sup> Real-time order and trade feed available from OCG Drop Copy Session. See [OCG website](#) for details.

			(ECP) to EP from mid-2014
	End of Day Closing price file	✘	File would be distributed through HKEx Electronic Communication Platform (ECP) to EP from mid-2014

## Appendix C     SDNet/2 Reconfiguration Charges

Migration Approach	Chargeable Item	Charge	Remark
Parallel option  (need 11Mbps or 13Mbps bandwidth during parallel period)	Circuit reconfiguration charge for migration (require 2 times reconfigurations)	\$3,000 per circuit	<u>One-off charge</u>  For circuits using 10Mbps, SDNet Vendors will temporarily upgrade the circuit bandwidth to support both MWS and ET Trade Speed Station for a period of maximum 3 months. The circuit rental charge remains the same rate as 10Mbps.
	Bandwidth downgrade after migration	\$1,500 per circuit	<u>One-off charge</u>  If the circuits are still within the minimum contract periods, bandwidth downgrade to 1Mbps or 3Mbps can only be done after contract periods or as agreed with the SDNet/2 Vendors.
	Bandwidth rental after migration	\$1,300/month for 1Mbps per circuit  \$2,400/month for 3Mbps per circuit  \$100/month for each network switch subscribed	<u>Rental charge</u>
Full migration option	Circuit reconfiguration charge for migration (require 2 times reconfigurations)	\$3,000 per circuit	<u>One-off charge</u>
	Bandwidth downgrade after migration	\$1,500 per circuit	<u>One-off charge</u>  If the circuits are still within the minimum contract periods, bandwidth downgrade to 1Mbps or 3Mbps can only be done after contract periods or as agreed with the SDNet/2 Vendors.
	Bandwidth rental after migration	\$1,300/month for 1Mbps per circuit	<u>Rental charge</u>



		\$2,400/month for 3Mbps per circuit  \$100/month for each network switch subscribed	
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## **Appendix D    ET Trade Speed Station Migration Preparation Guide**

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