

Update on Cash Market Development

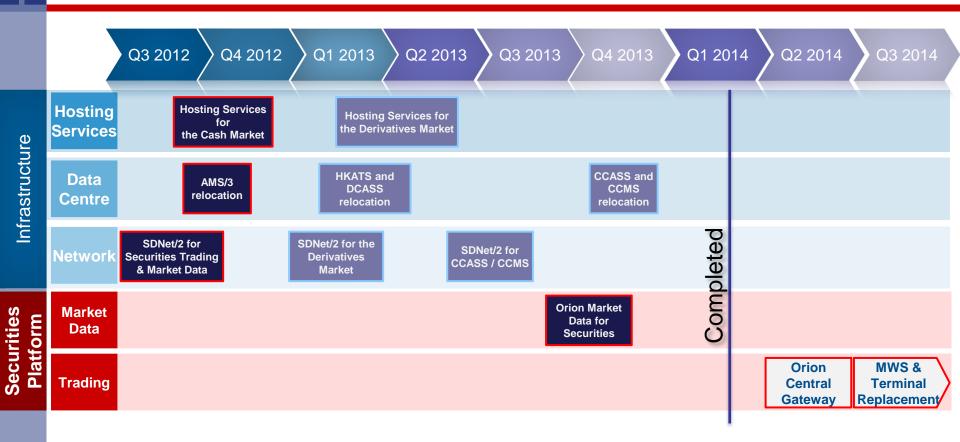
20 March 2014 Cash Trading, Global Markets Division





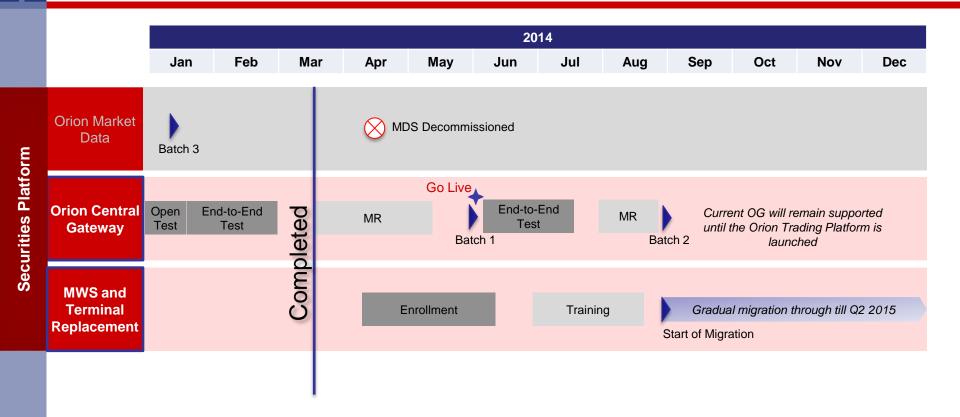
Orion Programme for Cash Market





In-Flight Projects Timeline





Note: All dates illustrated above are tentative for indication only. Confirmed dates will be issued by circular.

"MR" = Market Rehearsal



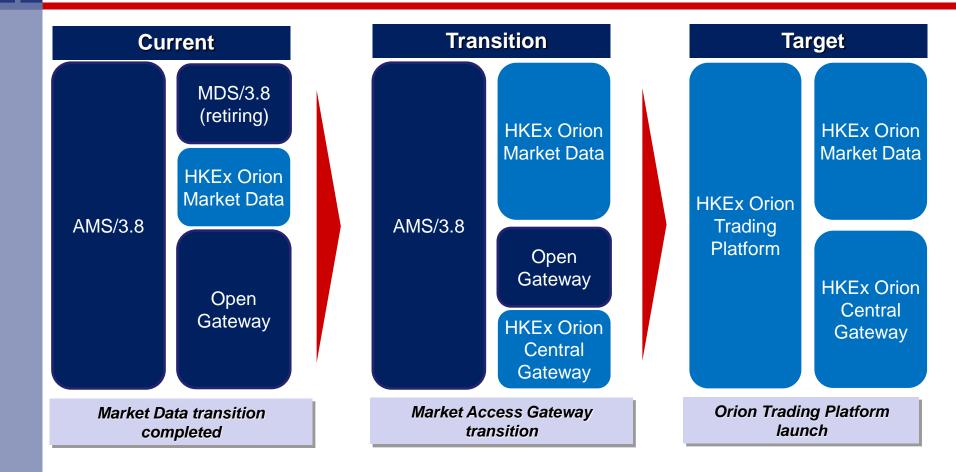


Orion Central Gateway (OCG)

http://www.hkex.com.hk/OCG



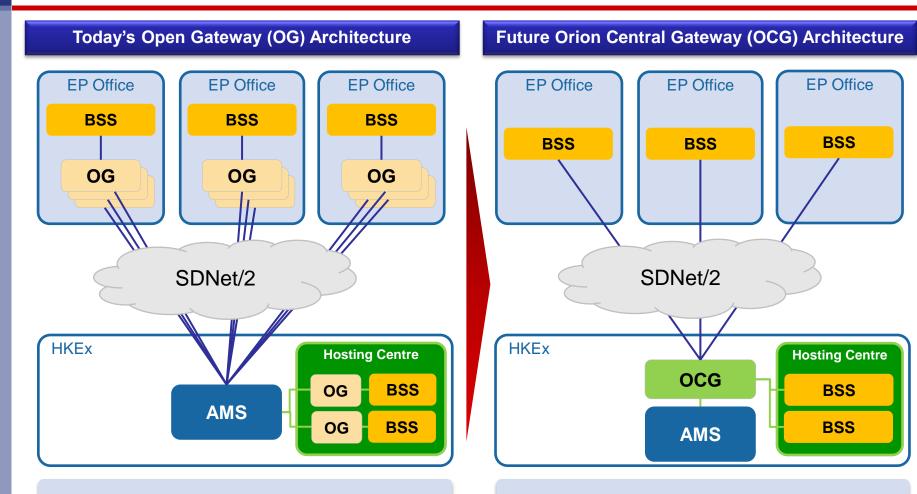




Phased approach to minimize participant impact

Gateway Architecture





- Access via OG Connection
- Gateway device in EP office, maintained by EP
- One pair of SDNet/2 circuits per OG

- Access via "OCG Session"
- Gateway device in HKEx, maintained by HKEx
- One pair of SDNet/2 circuits per location

Comparison of OG and OCG

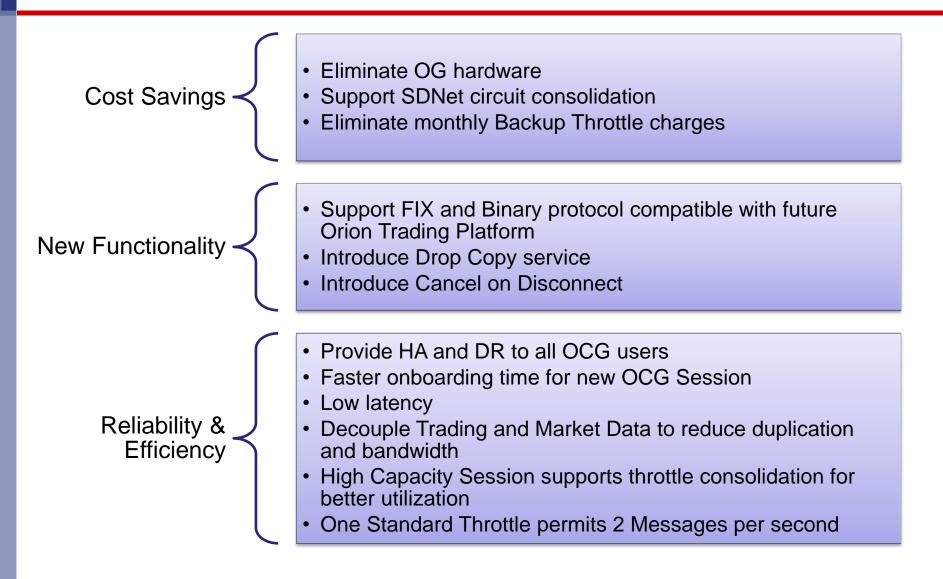


| Key Feature | OG | OCG |
|---------------|--|--|
| Hardware | By EP | By HKEx |
| Resilience | High Availability (HA) requires HA OG Disaster Recovery (DR) requires Backup OG | HA and DR resilience built in |
| Interface | AMS/3 open message protocol | FIX or Binary protocol |
| Capacity | Max 60 Throttles (Trading) Max 30 Throttles (Market Making) | Max 250 Throttles per OCG Session |
| SDNet Circuit | Separate circuit for each OG | Circuits consolidation for each location |
| Market Data | Via OG | Via Orion Market Data Platform |
| Trade Data | Central Trade Feed (CTF) | Drop Copy Service* |

* Real-time consolidated trade-only / order and trade reporting

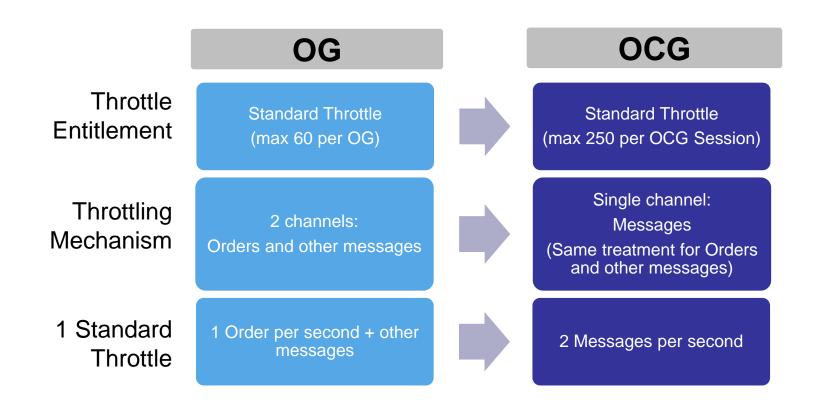
OCG Benefits to EP





Change in Throttling Mechanism





Simplified throttling mechanism

Additional Order throughput (up to 2 Orders/second per throttle) and flexibility for EPs

OCG Status Updates



OCG Upcoming Activities

| Batch 1 Activity | Date |
|------------------------|----------|
| Connectivity Tests | Mar 2014 |
| Rollout Tests | Apr 2014 |
| OCG Launch for Batch 1 | Q2 2014 |

Batch 2 Activity

Batch 2 Enrollment Revised OCG Specification Batch 2 Simulator Test Test line installation Batch 2 End-to-End Test Production line installation Batch 2 Rollout Test Batch 2 Rollout

28 Mar 2014 28 Mar 2014 Apr to May 2014 Apr to May 2014 Jun to Jul 2014 Jun to Jul 2014 Q3 2014 Q3 2014

Project Manager's Report

Project on schedule to launch in June.

EPs can rollout new OCG session after Batch 1 if the BSS version has already completed End-to-End Test in Batch 1.

Enhancement for semi-automatic matching (Odd Lot and Special Lot) is planned for roll out in Q3 2014 along with Batch 2 rollout.

The new messages for semi-automatic matching are optional. Batch 1 EPs are required to perform End-to-End Test and Rollout Test in Batch 2 only if they plan to use these messages.

Note: All future dates above are tentative for indication only. Confirmed dates will be issued by circular or email.



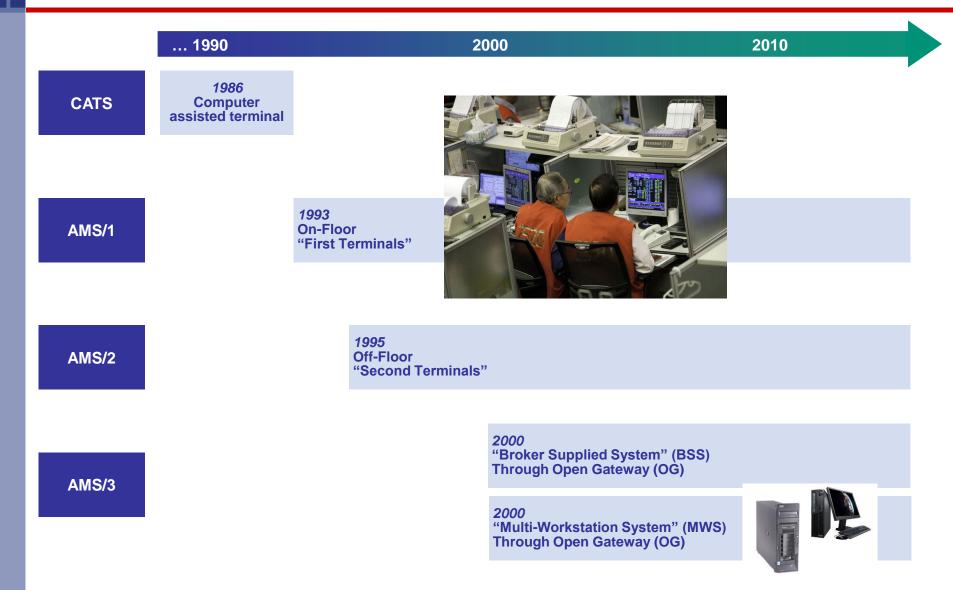


MWS and Terminal Replacement New Securities Trading Device (NSTD)

http://www.hkex.com.hk/NSTD









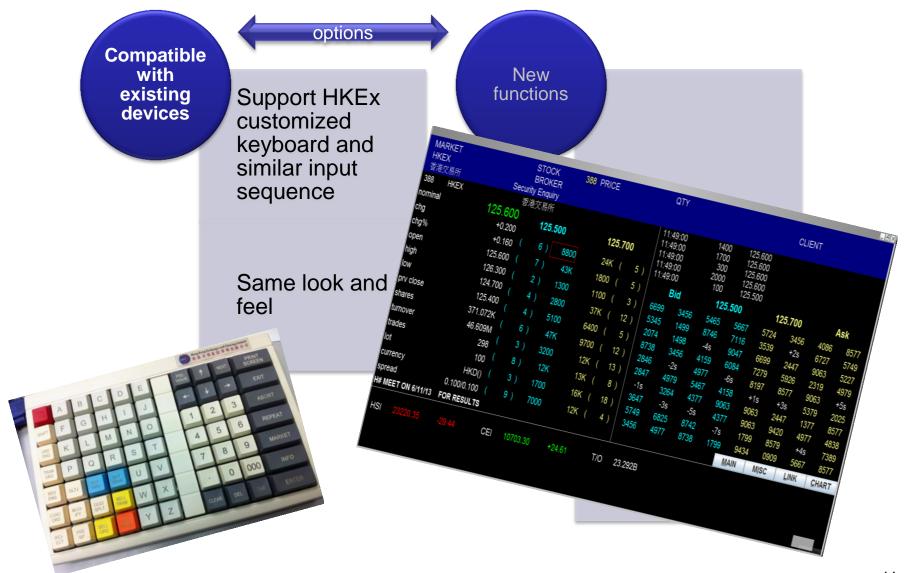
| We cannot do nothing | | |
|------------------------------------|---|--|
| Archaic Design and Architecture | Terminals date back to 1993, and MWS to 2000, and have not changed | |
| Obsolescence | The MWS servers and the Windows 2003 operating system reach "end of support" in 2015 | |
| Future Compatibility | Terminals / MWS need to connect to the Orion Central Gateway (OCG) to be compatible with Orion Trading Platform (OTP) | |

We fundamentally believe that the terminal market is better served by vendors, and that HKEx should not participate in this space

| The plan | | |
|-------------|---|--|
| Approach | Adopt an outsource model with an Independent Software Vendor for a 5 year term | |
| Arrangement | ET Trade(交易通) (with group company ET Net(經濟通)) will provide the new trading device "ET Trade Speed Station" and support services to EPs at a fixed price HKEx will manage the migration with ET Trade for EP HKEx will monitor the software and service quality of the vendor | |
| Long Term | After 5 years, if the solution is proven, HKEx will step back | |

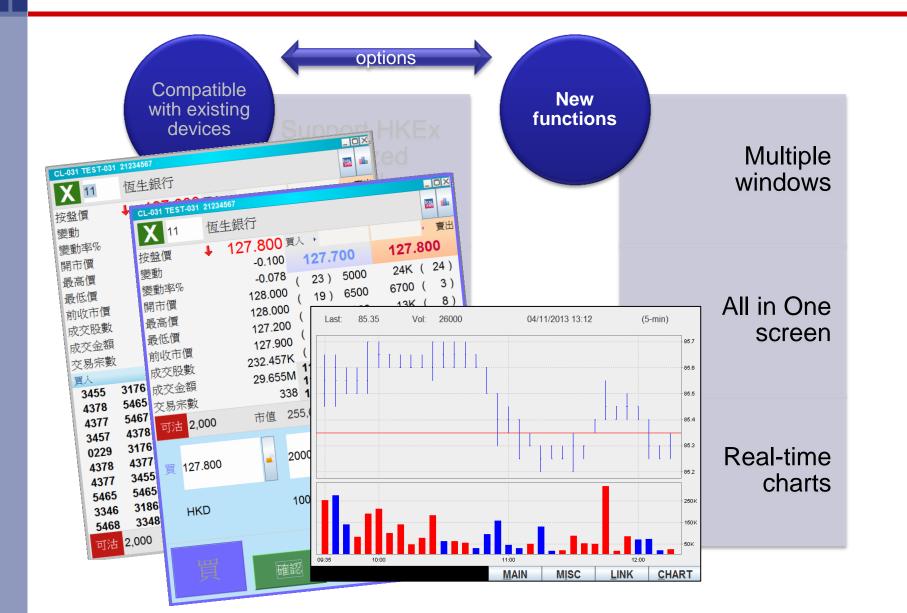
Key Features of ET Trade Speed Station





Key Features of ET Trade Speed Station





NSTD Status Updates



NSTD Activities EP related Activity **EP** General Briefings Nov 2013 **NSTD Web Corner** Dec 2013 EP Briefings on Migration Mar 2014 Information Paper Apr 2014 **MWS Migration Confirmation** Contract signing with ET Trade SDNet reconfiguration **User Training** MWS Migration (by batch) MWS Termination Q1 2015 Terminal Migration Enrollment Terminal Migration (by batch) **Terminal Termination** Q3 2015

Apr to May 2014 May to Jun 2014 July to Aug 2014 (1 month before) Q3 2014 to Q1 2015 Sep to Oct 2014 Q1 to Q2 2015

Project Manager's Report

HKEx appointed an Independent Software Vendor (ET Trade) to provide a new securities trading device - "ET Trade Speed Station".

Most of the existing "look-and-feel" will be preserved, while introducing some new improved features (e.g. real-time charts, multiple screens). Development is in progress.

Migration to ET Trade Speed Station is optional, EP can choose to migrate to other BSS solutions or de-install existing MWS/Terminal.

Project on schedule to launch in late Q3.

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Thank You

Cash Market Participant Enquiry: trd@hkex.com.hk