

領航星中央交易網關

Orion Central Gateway

March 2013







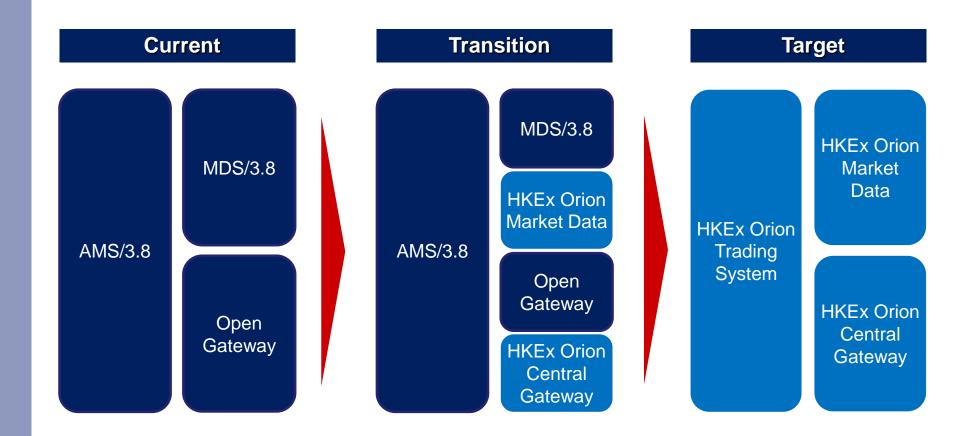






Securities Market Platform Migration

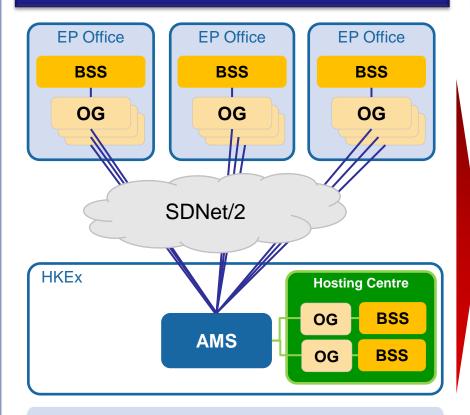




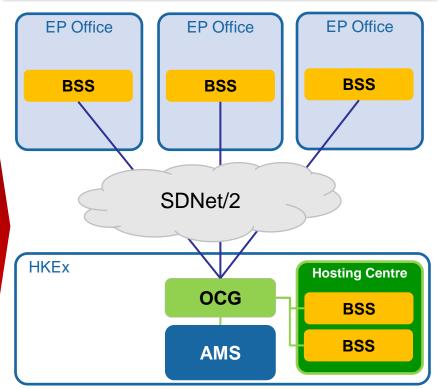
What is the Orion Central Gateway?



Today's Open Gateway (OG) Architecture



Future Orion Central Gateway (OCG) Architecture



- Access via OG Connection
- Gateway device 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

Provide a centralized, high resilient, low latency, flexible and scalable platform to EPs.

Comparison of Orion Central Gateway with OG



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 	 Circuit consolidation for each location 		
Market Data	 Via OG or MDF 	 Via Orion Market Data Platform (Q2 2013) 		
Trade Data	 Central Trade Feed (trades only) 	 Drop Copy Service (trades only, or orders + trades) 		

What are the benefits?



- Eliminate OG hardware
- Support SDNet circuit consolidation
- Eliminate monthly Backup Throttle charges
- One Standard Throttle permits 2 Messages per second
- Support FIX and Binary protocol compatible with future Orion Trading System
- Introduce Drop Copy service
- Introduce Cancel on Disconnect
- Decouple Trading and Market Data to reduce duplication and bandwidth
- Provide HA and DR to all OCG users
- Faster onboarding time for new OCG Session
- Low latency
- High Capacity Session supports throttle consolidation for better utilization

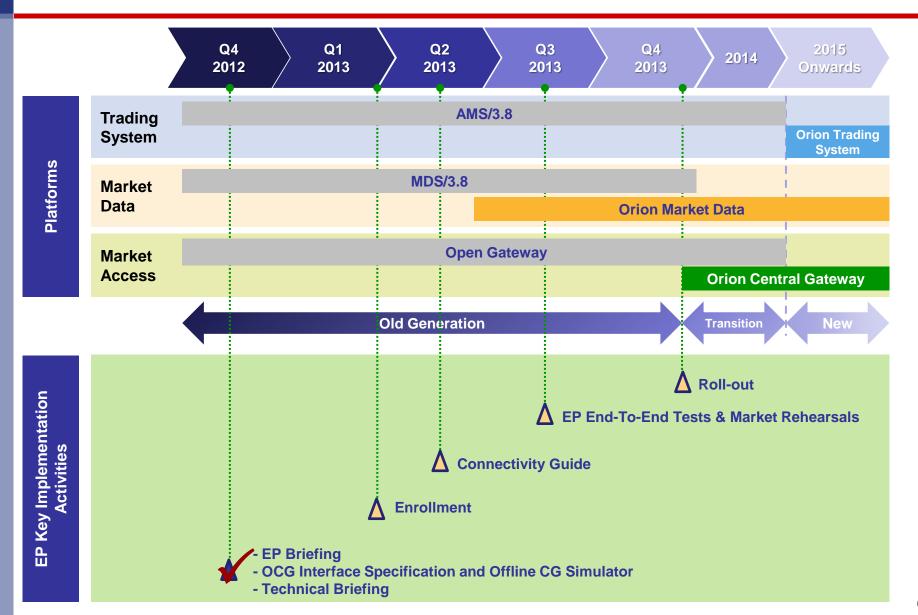






Status & Timeline





On-Boarding Schedule



Tentative Timeline	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013
Distribution of offline simulators of OCG and OMD-C					
EP to return OCG enrollment form					
EP to return OCG simulator test result					
Open test (OMD-C) / End to End Test (OCG) OMD-C OCG					
EP to return declaration on readiness tests					
Installation of production OCG/BSS and OMD-C circuits, and signing up Market Data Agreement					
Market Rehearsals					
Rollout					

Certification:

- ✓ Simulator Test Package
- ✓ End-to-End Test Package
- ✓ Market Rehearsal Scenarios

Enquiries



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