

June 2020

**PRE-OPENING SESSION (POS)
ENHANCEMENTS
IN THE
SECURITIES MARKET**

HKEX
香港交易所

HKEX Cash Trading

AGENDA

1

Background for POS

2

POS Enhancements

3

Market Education



AGENDA

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Background for POS

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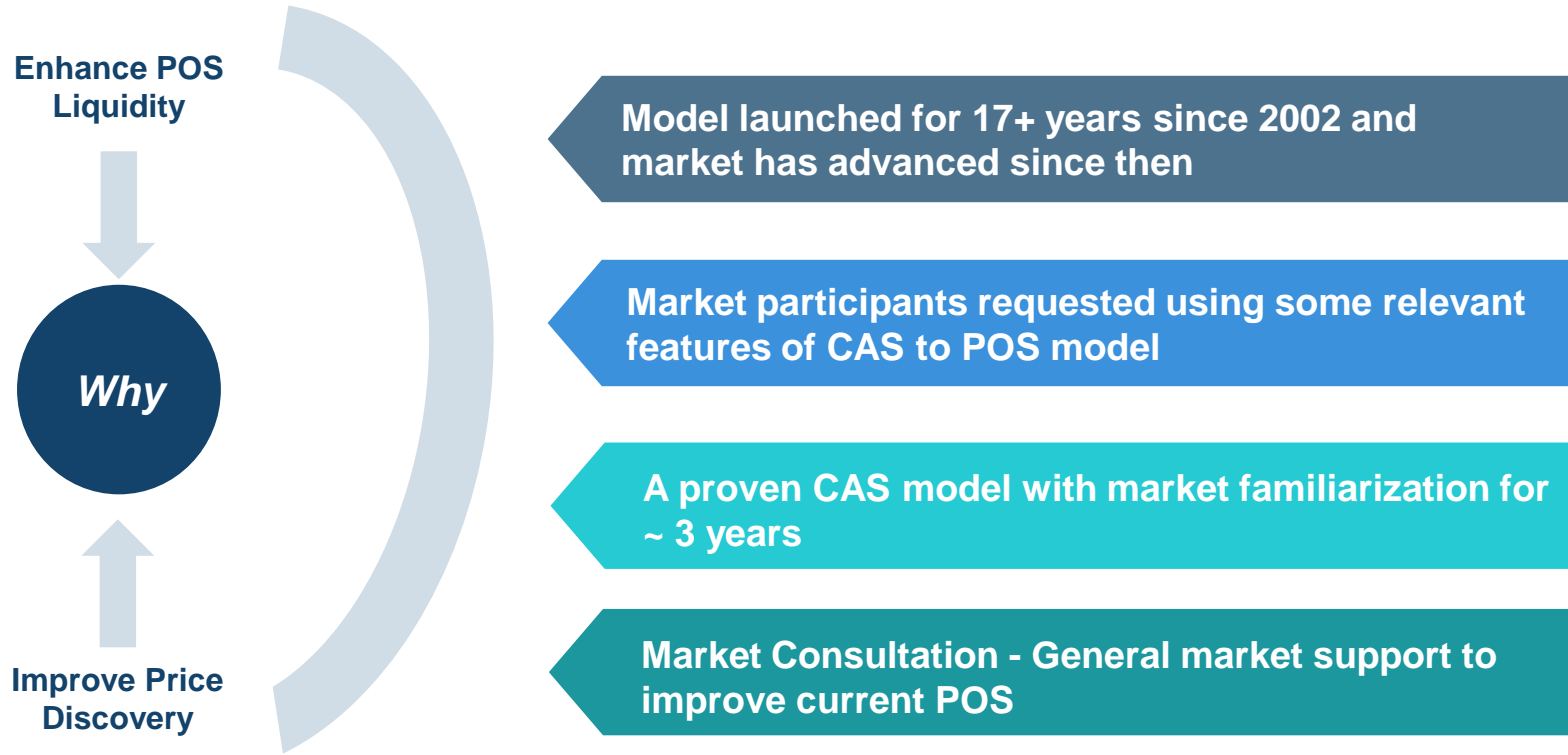
POS Enhancements

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Market Education



Background of POS Enhancement



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Key Features of Enhanced POS Model

		Pre-Opening Session			
Time	9:00	9:15	9:20	9:22	After matching 9:30
Session	Order Input Period (15 mins)	No-cancellation Period (5 mins)	1 Random Matching Period (0-2 mins)	Blocking Period (8-10mins)	
Description	2 <u>Price Limit:</u> ±15% of previous closing price	lowest ask & highest bid (recorded at the end of Order Input Period)			Unfilled at-auction limit orders will be carried forward to CTS as limit orders
	<u>Order Type Allowed:</u>	At-auction Order			
	3 At-auction Limit Order				
	<u>Actions Allowed:</u> ✓ Input/Cancel/Amend	✓ Input ; ✗ Cancel & Amend			
<u>Other Enhancements</u>					
4	Applicable Securities (POS Securities): all equities, funds and Leveraged and Inverse Products (L&I Products)				
5	Allow short selling on designated securities eligible for short selling (DS) with a tick rule referencing to the previous closing price				
6	Additional market data dissemination				

Continuous Trading Session (CTS)



Enhanced POS Model

APPLICABLE SECURITIES

- All **equities**, including
 - Depository receipts
 - Investment companies
 - Preference shares; and
 - Staple securities
- **Funds**, including
 - Exchange Traded Funds (ETFs) ; and
 - Real Estate Investment Trusts (REITS)
- **Leveraged and Inverse Products**. L&I Products will also be included in Closing Auction Session when POS is implemented for consistency and be launched at the same time
- Exclude structured products, debt securities, equity warrants and rights



Enhanced POS Model

PRICE LIMIT

- Apply two-stage price limits
- 1st Stage: $\pm 15\%$ from the previous closing price (NOT applicable to pre-defined scenarios⁽¹⁾)
- 2nd Stage⁽²⁾: Upper Price Limit - the higher of the highest bid price and the lowest ask price recorded at the end of order input period.

Lower Price Limit - the lower of the highest bid price and the lowest ask price recorded at the end of order input period.

In order to facilitate trading after the pre-opening session, passive at-auction limit orders (i.e. buy order price lower than the Lower Price Limit and sell order price higher than the Upper Price Limit) will still be accepted provided that these orders are within $\pm 15\%$ from the previous closing price.

*However, these passive orders **will not be matched** during POS since their prices fall outside the range of 2nd stage Upper Price Limit and Lower Price Limit.*

(1) In the absence of the Previous Closing (e.g. IPO stocks) and stocks resuming from trading suspension, 1st stage price limit checking will be relaxed for Order Input Period.
(2) In case there is no buy order and/or sell orders recorded at the end of Order Input Period, the 2nd stage price limits will be same as the 1st stage price limits.



Enhanced POS Model – Order Input Period

Duration	15 mins (9:00 – 9:15)			
Order Type Allowed	✓ At-auction Order		✓ At-auction Limit Order	
Order Price Limit	<u>1st Stage Price Limit: ±15% of previous closing price</u> Buy orders: Previous Close -15% ≤ Price ≤ Previous Close + 15% Sell Orders: Previous Close -15% ≤ Price ≤ Previous Close + 15%			
Actions Allowed	Order	✓ Input	✓ Amend	✓ Cancel
	Manual Trade	✓ Input	✓ Reject (non-direct business)	



Enhanced POS Model – No Cancellation Period

(formerly known as Pre-order Matching Period)

Duration	5 mins (9:15 – 9:20)			
Order Type Allowed	✓ At-auction Order		✓ At-auction Limit Order	
Order Price Limit	<p><u>2st Stage Price Limit: lowest ask and highest bid recorded at the end of Order Input Period</u></p> <p>Buy Order: Previous Close – 15% ≤ Order Price ≤ Upper Limit Sell Order: Previous Close + 15% ≥ Order Price ≥ Lower Limit</p> <ul style="list-style-type: none"> • Lower Limit = lowest ask at 9:15 (if highest bid at 9:15 > lowest ask at 9:15) or highest bid at 9:15 (if highest bid at 9:15 < lowest ask at 9:15) • Upper Limit = highest bid at 9:15 (if highest bid at 9:15 > lowest ask at 9:15) or lowest ask at 9:15 (if highest bid at 9:15 < lowest ask at 9:15) 			
Actions Allowed	Order	✓ Input	✗ Amend	✗ Cancel
	Manual Trade	✓ Input	✓ Reject (non-direct business)	



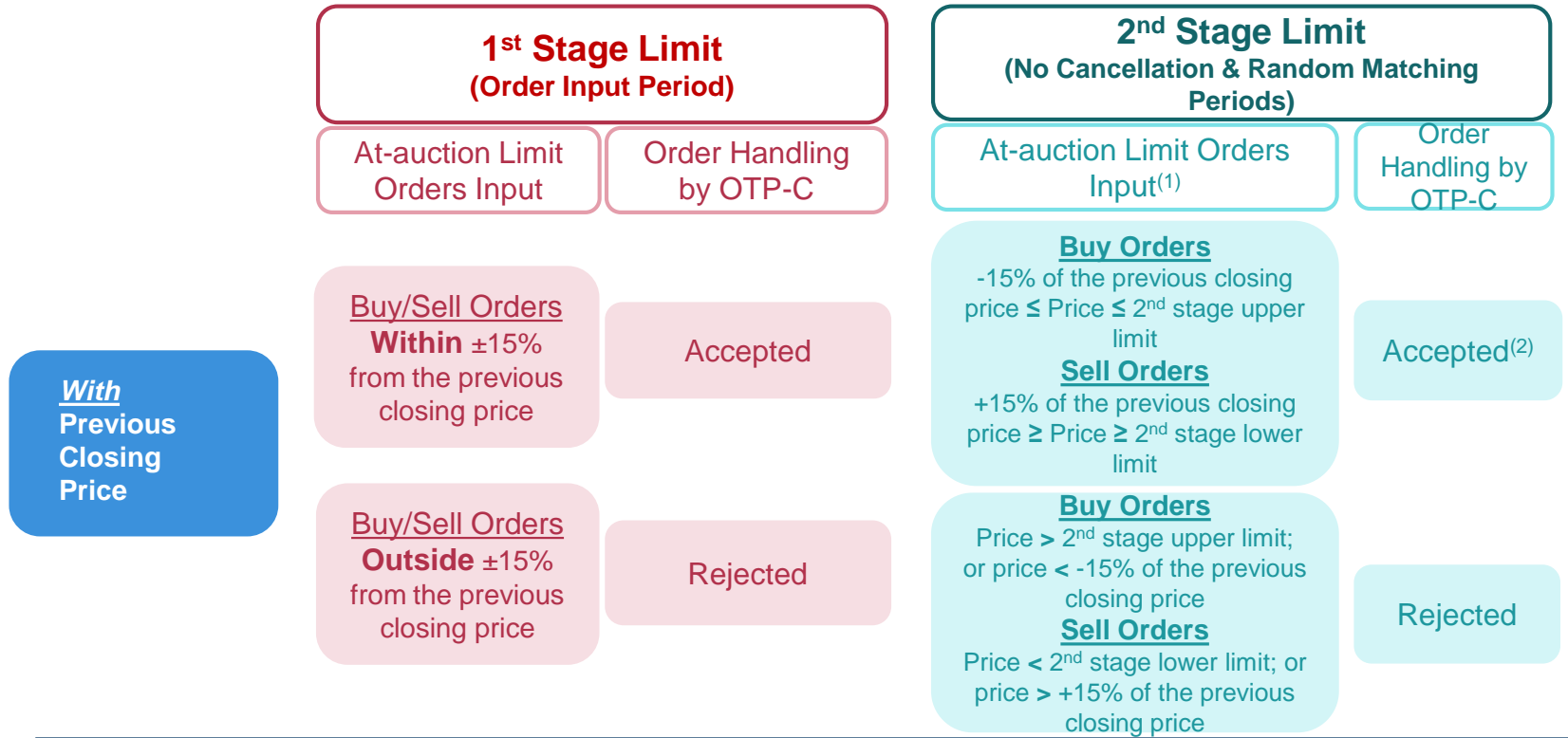
Enhanced POS Model – Random Matching Period

Duration	0-2 mins (9:20-9:22) (Order matching ⁽¹⁾ will randomly start between 9:20 – 9:22 at the final IEP)			
Order Type Allowed	✓ At-auction Order		✓ At-auction Limit Order	
Order Price Limit	<p><u>2st Stage Price Limit: lowest ask and highest bid recorded at the end of Order Input Period</u></p> <p>Buy Order: Previous Close – 15% ≤ Order Price ≤ Upper Limit Sell Order: Previous Close + 15% ≥ Order Price ≥ Lower Limit</p> <ul style="list-style-type: none"> • Lower Limit = lowest ask at 9:15 (if highest bid at 9:15 > lowest ask at 9:15) or highest bid at 9:15 (if highest bid at 9:15 < lowest ask at 9:15) • Upper Limit = highest bid at 9:15 (if highest bid at 9:15 > lowest ask at 9:15) or lowest ask at 9:15 (if highest bid at 9:15 < lowest ask at 9:15) 			
Actions Allowed	Order	✓ Input	✗ Amend	✗ Cancel
	Manual Trade	✓ Input	✓ Reject (non-direct business)	

(1) Upon start of order matching, input / cancel / amend of orders will not be allowed. And no order matching will be conducted if final Indicative Equilibrium Price (IEP) cannot be determined 11



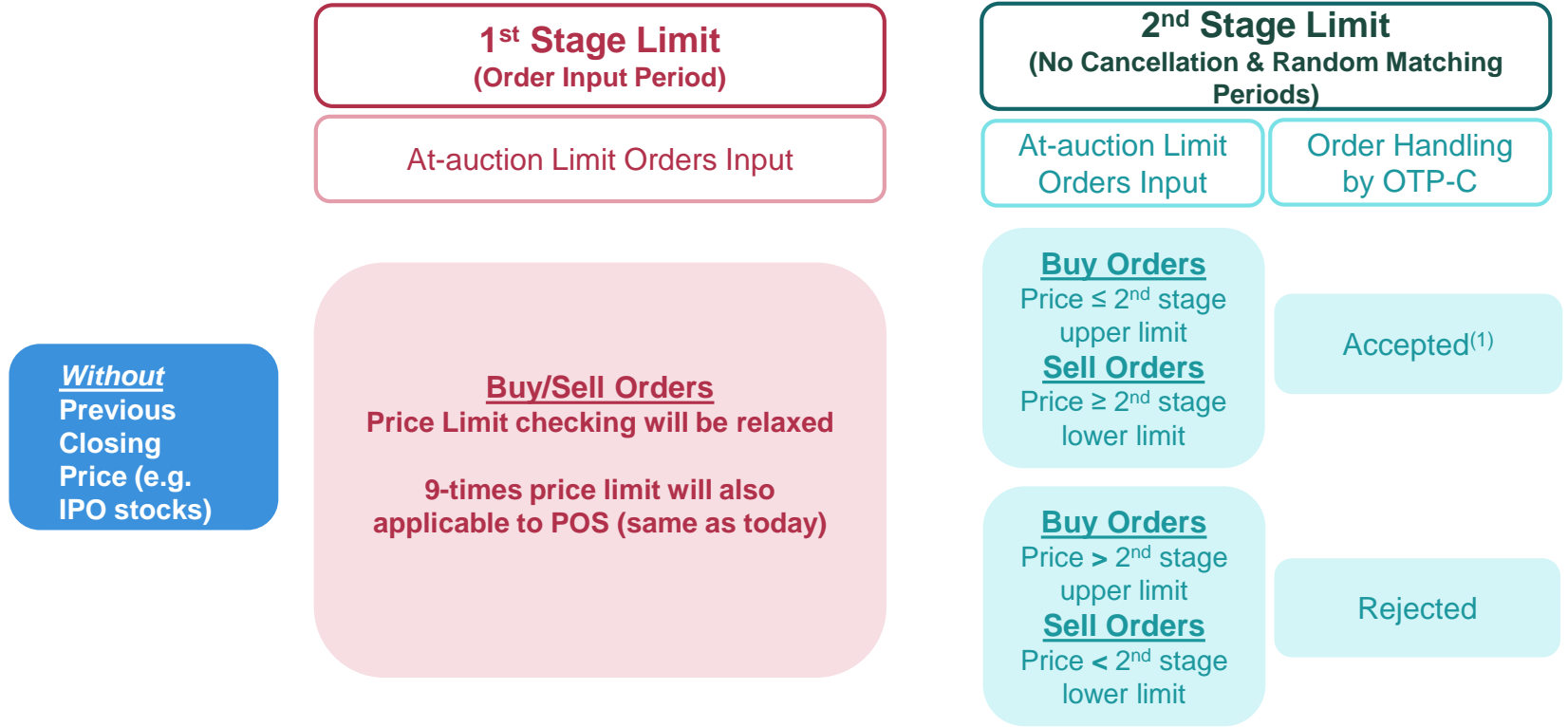
Illustration of Price Limits in POS



(1) All At-auction limit orders input in No Cancellation Period and Random Matching Period cannot deviate more than ±15% of previous closing price (i.e. 1st stage limit).
 (2) IEP will only be formed within the range of the highest bid and lowest ask recorded at the end of the order input period, when the highest bid is equal to or higher than the lowest ask



Illustration of Price Limits in POS



(1) IEP will only be formed within the range of the highest bid and lowest ask recorded at the end of the order input period, when the highest bid is equal to or higher than the lowest ask 13

Enhanced POS Model – Blocking Period

Duration	8-10 mins (9:20 – 9:30) (Start between 9:20 – 9:22 immediately after completion of order matching)			
Order Type Allowed	× At-auction Order		× At-auction Limit Order	
Actions Allowed	<i>Order</i>	× Input	× Amend	× Cancel
	<i>Manual Trade</i>	× Input	× Reject	
Outstanding Orders	<i>At-auction Order</i> : unfilled orders will be cancelled by OTPC			
	<i>At-auction Limit Order</i> : unfilled orders with input price not deviating 9 times or more from the nominal price will be converted to limit orders and carried forward to the Morning Continuous Trading Session			



Enhanced POS Model

SHORT SELL ALLOWANCE

- Short selling order (except at-auction order) can be input on the Designated Securities⁽¹⁾ which are eligible for short selling during POS, with price **cannot be lower than previous closing price** (i.e. tick rule)
- In the absence of the Previous Closing Price, input of short sell orders in POS will be rejected.
- Tick rule will be relaxed for ETFs and L&I products.
- Same as the arrangement in Closing Auction Session (CAS), short selling by certain participants will be exempted from tick rule⁽²⁾ while certain type of short selling will be disallowed⁽³⁾



(1) The list of all Designated Securities is available on the [Exchange's website](#).

(2) Designated Index Arbitrage Short Selling by a Designated Index Arbitrage Short Selling Participant, Stock Futures Hedging Short Selling by a Designated Stock Futures Hedging Short Selling Participant, and Options Hedging Short Selling by an Options Market Maker or an Options Hedging Participant will be exempted from tick rule.

(3) Structured Product Liquidity Provider Short Selling by a Structured Product Liquidity Provider and Structured Product Hedging Short Selling by a Structured Product Hedging Participant will be disallowed.

Enhanced POS Model

MARKET DATA DISSEMINATION

Disseminate to Market:

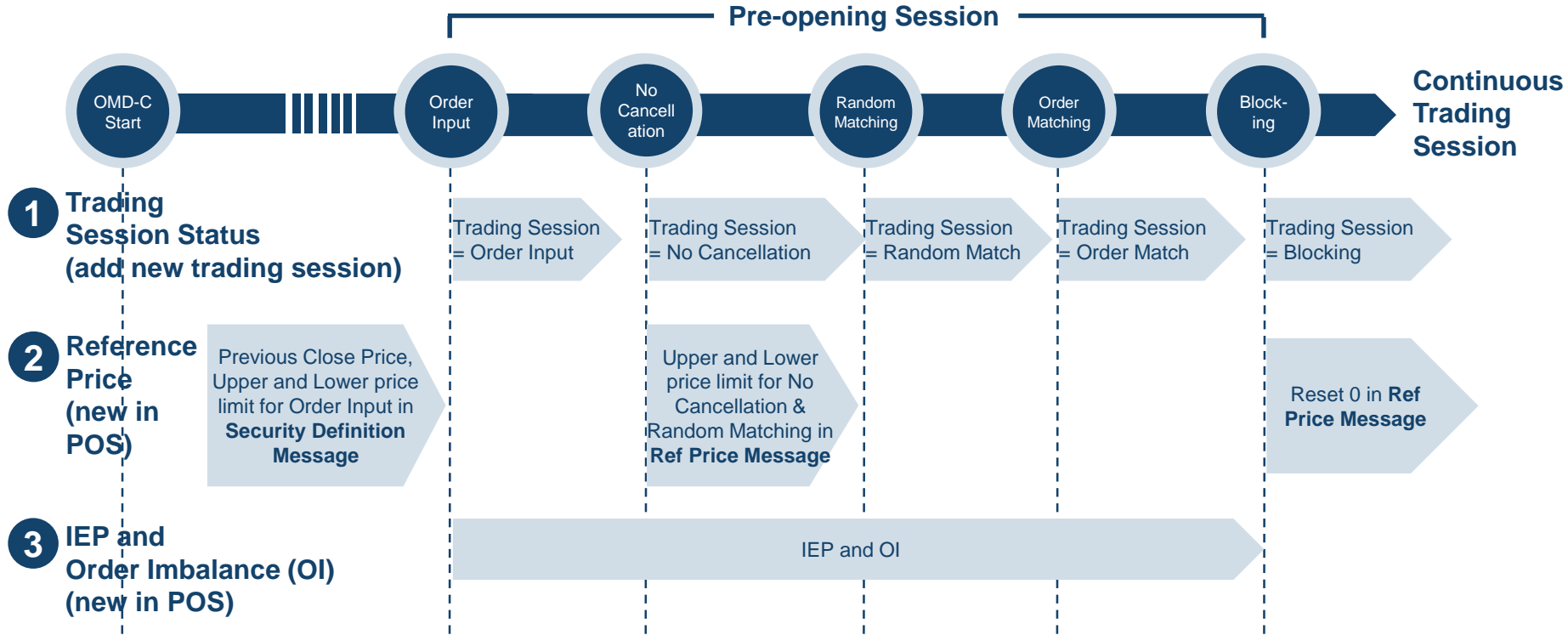
- POS stock indicator
- Reference Price for Order Input Period
- Indicative Equilibrium Price (IEP)
- Indicative Equilibrium Volume (IEV)
- Order imbalance information (direction and quantity)
- Stage 1 and Stage 2 price limits
- Trading State during POS

System message dissemination to relevant EPs

- Order rejection (during POS) due to violation of price limit



Information Dissemination for POS Enhancements



Preparation for Market Readiness

POS Enhancement

POS Enhancement	Date	Participants
End-to-End Test	Test Period: 14 July 2020 – 10 Aug 2020 Test Result Submission: on or before 12 Aug 2020	Mandatory for <u>all</u> EPs to participate
Market Rehearsal	Late August / September 2020, Saturday	Mandatory for <u>all</u> EPs to participate
Launch	Tentative October 2020	~



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1 Background for POS

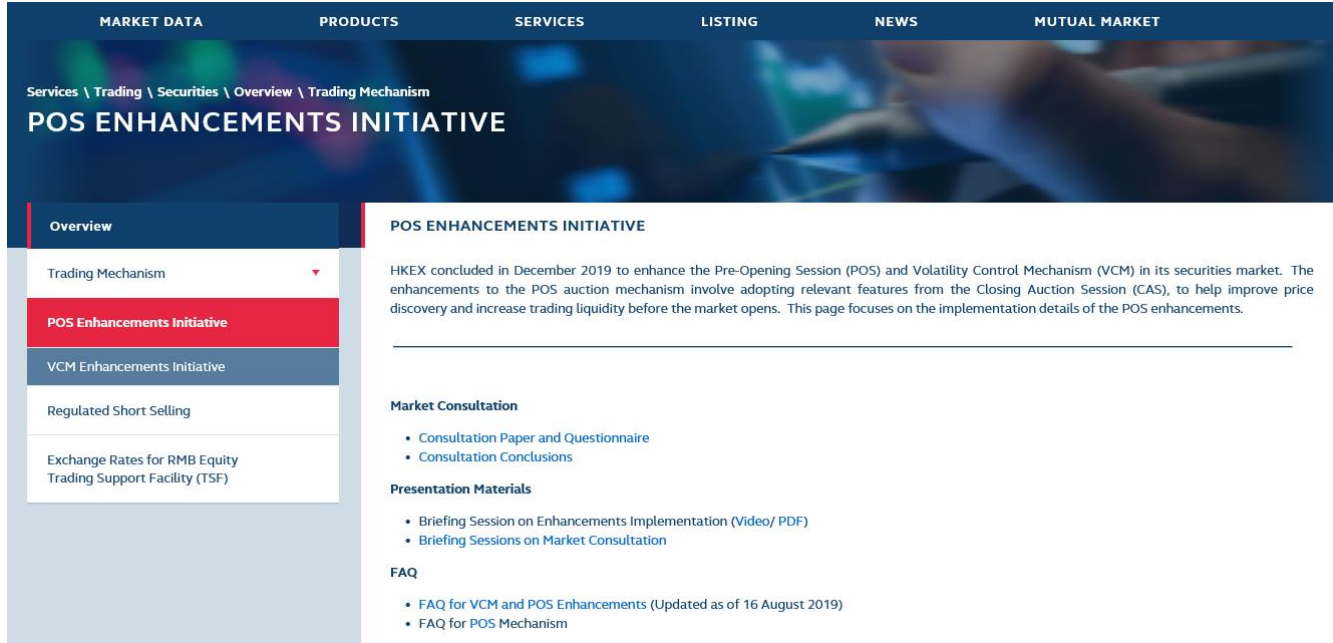
2 POS Enhancements

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Further Information

- ✓ **Project Corner** has been established to provide relevant information
Services \ Trading \ Securities \ Overview \ Trading Mechanism \ POS Enhancements Initiative



The screenshot displays the HKEX website's navigation menu at the top, including MARKET DATA, PRODUCTS, SERVICES, LISTING, NEWS, and MUTUAL MARKET. The breadcrumb trail reads: Services \ Trading \ Securities \ Overview \ Trading Mechanism. The main heading is POS ENHANCEMENTS INITIATIVE. A left-hand navigation menu lists: Overview (selected), Trading Mechanism, POS Enhancements Initiative (highlighted in red), VCM Enhancements Initiative, Regulated Short Selling, and Exchange Rates for RMB Equity Trading Support Facility (TSF). The main content area is titled POS ENHANCEMENTS INITIATIVE and contains the following text: HKEX concluded in December 2019 to enhance the Pre-Opening Session (POS) and Volatility Control Mechanism (VCM) in its securities market. The enhancements to the POS auction mechanism involve adopting relevant features from the Closing Auction Session (CAS), to help improve price discovery and increase trading liquidity before the market opens. This page focuses on the implementation details of the POS enhancements. Below this text are sections for Market Consultation, Presentation Materials, and FAQ, each with a list of links.

Overview

- Trading Mechanism
- POS Enhancements Initiative**
- VCM Enhancements Initiative
- Regulated Short Selling
- Exchange Rates for RMB Equity Trading Support Facility (TSF)

POS ENHANCEMENTS INITIATIVE

HKEX concluded in December 2019 to enhance the Pre-Opening Session (POS) and Volatility Control Mechanism (VCM) in its securities market. The enhancements to the POS auction mechanism involve adopting relevant features from the Closing Auction Session (CAS), to help improve price discovery and increase trading liquidity before the market opens. This page focuses on the implementation details of the POS enhancements.

Market Consultation

- [Consultation Paper and Questionnaire](#)
- [Consultation Conclusions](#)

Presentation Materials

- [Briefing Session on Enhancements Implementation \(Video/ PDF\)](#)
- [Briefing Sessions on Market Consultation](#)

FAQ

- [FAQ for VCM and POS Enhancements \(Updated as of 16 August 2019\)](#)
- [FAQ for POS Mechanism](#)





Any Questions?

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