



London
Stock Exchange Group

LSE SETS Intra-day Auction

Scheduled auction at 12:00pm for equity securities on SETS orderbook

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SETS Intra-Day Auction

Scheduled auction 12:00pm for equity securities on SETS orderbook

Opportunity to take part in a price forming liquidity event, timed to coincide with the traditional low point in daily volatility, and exempt from the MiFID II double volume caps in dark trading

Only level 1, top of book data, visible during auction, limiting market impact of larger sized block orders

Provision of mid-day price formation for products and portfolio benchmarking, removing the need to use last or mid-price

Midday price forming auction mechanism for trading larger sized orders.

Functionality

How it works:



The intra-day auction will occur each London business day at

12:00 noon*

* other than the two half-trading days at Christmas / New Year.



2 minutes

call period followed by a random 30 second uncrossing.

At the transition to this auction call phase an order book clear message is generated, removing the breakdown of the depth of the orders on the book (Level 2 price and quantity information). Whilst they can not be individually seen, any orders valid for an auction phase continue to remain active.

During the auction call phase, random period and any subsequent price monitoring or market orders extensions, only Level 1 data (including indicative uncrossing price and trade size) will be published.

Following the completion of the uncrossing, a single aggregated UT (Uncrossing Trade) is disseminated to the market confirming the total volume executed and the price it occurred at.

After any remaining un-executed orders with an auction time in force are expired or parked as stipulated, the full level 2 depth of the book is re-disseminated and the regular trading session resumes.

The EDSP auction is unchanged and continues to operate at 10:10, as a full depth level 2 auction, on the relevant Fridays.

All other auctions (Open, Closing, AESP) also continue to operate as full depth level 2 auctions.

Which segments are supporting the Intra-day auction:

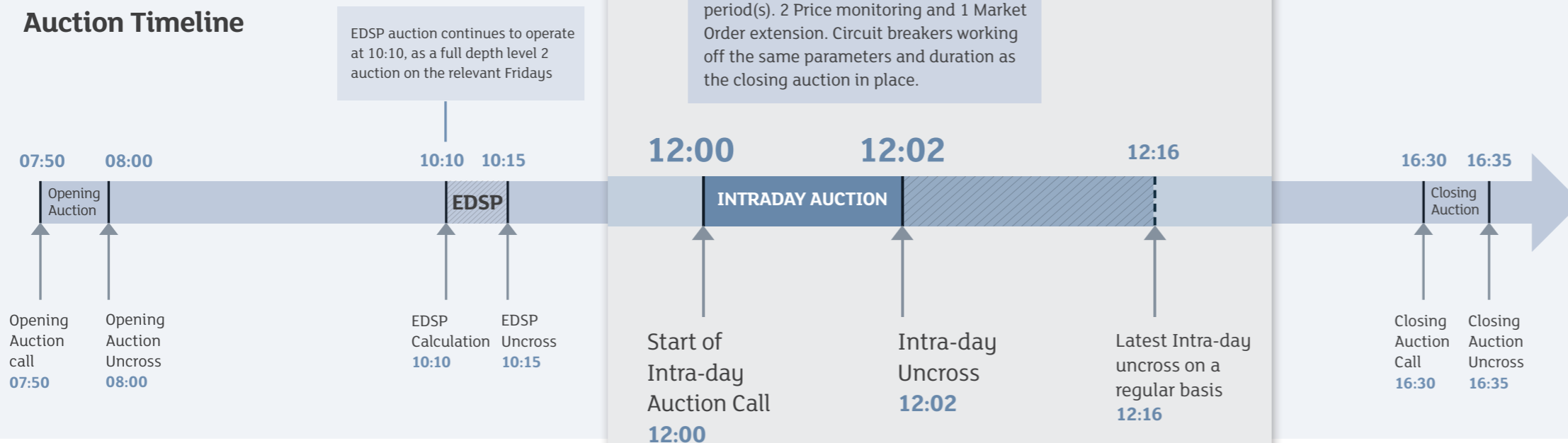
All securities in the following trading segments will support the intra-day auction.

Table 1: List of segments supporting the Intra-day auction

Trading Service	Segment code	Segment Description
SETS	AMSM	AIM ON SETS
	HGS1	SETS - High Growth Segment
	SET0	FTSE 100 ACC TICK
	SET1	FTSE 100
	SET2	Reserved for future re-use
	SET3	OTHER
	SFM1	SETS - Specialist Fund Market
	SSMM	Small Cap
	SSMU	SETS STANDARD LISTED OR AIM EURM
	STMM	FTSE 250

A complete guide of the LSE trading segments can be found in the "Millennium Exchange Business Parameters" document on www.lseg.com/guide-to-trading-system

Auction Timeline



- No order book depth disseminated on LSE market public market data feed throughout the duration of the intra-day auction. Only the following will be visible:
 - **Best bid price & size and best offer price & size**
 - **Indicative uncrossing price and size**
- Price and Market order circuit breakers working off the same parameters and duration as the closing auction in place
- Latest potential uncross on a regular day would be at 12:16 assuming 3 extension periods**.

* Duration of the auction includes random period and any extensions

**Details of auction market extensions can be found on 'Millennium Exchange Business Parameters' document on www.lseg.com/guide-to-trading-system

Participation

Which order Time in Forces can interact with the Intra-day auction:

All orders with any of the below Time In Force will interact with the intra-day auction.

Time in Force	Behaviour
DAY	Expired at the end of the day on which it was entered
GTD	Good to Date. Expired at the end of trading on the day specified in the order. If the specified day is a non-business day then the order will expire before start of trading on the next business day. Maximum expiry allowed is date of entry plus 89 calendar days
GTT	Good To Time. Any GTT orders with an expiry time during any auction call phase will not be expired until after uncrossing has completed and are therefore eligible to participate in that uncrossing. GTT orders timed to expire during a CPP or CPX trading sessions will be expired at the prescribed time. Any remaining GTT orders will be expired at the end of trading day
GFA	Injected as soon as in auction phase (Opening / First, AESP, EDSP, and Closing) with any remaining volume expired after uncrossing. If no auctions in a trading day then expired after end of trading
GFS	Injected as soon as in a scheduled auction (excludes AESP and EDSP) with any un-executed volume parked after uncrossing and injected at the start of the next scheduled auction (excludes AESP and EDSP) that day. No further execution after the completion of the closing auction, with any remaining un-executed volume expired in the Post Close session

Which orders can target the different auction phases:

All orders with any of the below Time In Force will interact with the auction phases.

Time in Force	Behaviour
GFA	Injected in the first auction phase (Opening / First, AESP, EDSP, Intra-day and Closing), that follows after the order is submitted in the book. Participates in one auction only, with any remaining volume expired after uncrossing
GFS	Injected in scheduled auctions only (excludes AESP and EDSP) with any unexecuted volume parked after uncrossing and injected at the start of the next scheduled auction
OPG	Participates in the Opening or First auction with any remaining volume expired after uncrossing. Order rejected if an instrument does not have a scheduled Opening / First auction or uncrossing has passed that day
GFX	Injected as soon as in an EDSP auction with any remaining volume expired after uncrossing. Order rejected if there is no EDSP auction scheduled for that instrument on the trading day
ATC	Injected as soon as in a Closing auction with any remaining volume expired after uncrossing. Order rejected if an instrument does not have a scheduled Closing auction

A complete table of all LSE Time in Force types can be found in the "MIT 201 – Guide to the Trading System" document, Section 5.3, Table 7, on www.lseg.com/guide-to-trading-system

The combinations of Order Type and Time In Force that are valid on Millennium Exchange in each of the key trading sessions of order driven trading services excluding SETSqx and then SETSqx itself, are shown in the tables provided in the **Appendix**.

Relevant documentation

The following updated draft technical documents for the new functionality can be found in the Future Functional Release (Scheduled Level 1 Only Auctions) section on www.lseg.com/guide-to-trading-system

- MIT 201 – DRAFT Guide to the Trading System
- MIT 303 – Level 2 MITCH Specifications
- MIT 401 – Guide to Reference Data Services
- Future DRAFT Millennium Exchange Business Parameters

For further information

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Appendix

Table 8.1 – Trading session / Order / Time In Force – Excluding SETSqx

Time In Force														
Session	Order Type	Day	IOC	FOK	OPG	GTC	GTD	GTT	ATC	GFA	GFX	GFS	CPX	
During Auction Calls	Market	Allowed	Rejected	Rejected	Until OPG uncross	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Allowed	
	Limit	Allowed	Rejected	Rejected	Until OPG uncross	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Allowed	
	Iceberg	Allowed	Rejected	Rejected	Until OPG uncross	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Rejected	
	Hidden	Allowed	Rejected	Rejected	Until OPG uncross	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Rejected	
	Stop	Allowed	Rejected	Rejected	Rejected	Rejected	Allowed	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop Limit	Allowed	Rejected	Rejected	Rejected	Rejected	Allowed	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged	Parked until uncrossing	Parked until uncrossing	Parked until uncrossing	Rejected	Rejected	Rejected	Parked until uncrossing	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
	Pegged Limit	Parked until uncrossing	Parked until uncrossing	Parked until uncrossing	Rejected	Rejected	Rejected	Parked until uncrossing	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
	Executable Quotes	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
	Cross Orders and Block Trade Facility	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
During Regular Trading	Market	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Allowed	
	Limit	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Allowed	
	Iceberg	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Rejected	
	Hidden	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Allowed	Allowed	Until GFX uncross	Allowed	Rejected	
	Stop	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop Limit	Allowed	Allowed	Allowed	Rejected	Rejected	Allowed	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged	Allowed	Allowed	Allowed	Rejected	Rejected	Rejected	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged Limit	Allowed	Allowed	Allowed	Rejected	Rejected	Rejected	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	
	Executable Quotes	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
	Cross Orders and Block Trade Facility	Allowed	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected

Table 8.1 – Trading session / Order / Time In Force – Excluding SETSqx – cont'd

Time In Force														
Session	Order Type	Day	IOC	FOK	OPG	GTC	GTD	GTT	ATC	GFA	GFX	GFS	CPX	
During CPP Session	Market	Parked until CPX	Parked until CPX	Parked until CPX	Rejected	Rejected	Rejected	Parked until CPX	Rejected	Rejected	Rejected	Rejected	Parked until CPX	
	Limit	Parked until CPX	Parked until CPX	Parked until CPX	Rejected	Rejected	Rejected	Parked until CPX	Rejected	Rejected	Rejected	Rejected	Parked until CPX	
	Iceberg	Expired in CPX	Expired in CPX	Expired in CPX	Rejected	Rejected	Rejected	Expired in CPX	Rejected	Rejected	Rejected	Rejected	Rejected	
	Hidden	Expired in CPX	Expired in CPX	Expired in CPX	Rejected	Rejected	Rejected	Expired in CPX	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop Limit	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged Limit	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Executable Quotes	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
	Cross Orders and Block Trade Facility	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected
During CPX Session	Market	Allowed	Allowed	Allowed	Rejected	Rejected	Rejected	Allowed	Rejected	Rejected	Rejected	Rejected	Allowed	
	Limit	Allowed	Allowed	Allowed	Rejected	Rejected	Rejected	Allowed	Rejected	Rejected	Rejected	Rejected	Allowed	
	Iceberg	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Hidden	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Stop Limit	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Pegged Limit	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Executable Quotes	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	
	Cross Orders and Block Trade Facility	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected	Rejected

A Market Order with a persistent TIF entered or injected during a non-auction phase will act as an IOC order unless it generates a circuit breaker. In which case any remaining order quantity, following execution, will reside in the order book for the duration of the circuit breaker auction with the original specified persistent TIF.

London Stock Exchange plc attempts to ensure Information is accurate, however Information is provided "AS IS" and on an "AS AVAILABLE" basis and may not be accurate or up to date. The most updated version of the above table with the Order / Time in Force combinations can be found in the "MIT 201 – Guide to the Trading System" document, Section 5.4, on www.lseg.com/guide-to-trading-system

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