

## UK Venues

### Lit Displayed, central-limit order books

MIC	Operating MIC	Description
AIMX	XLON	LONDON STOCK EXCHANGE - AIM MTF
AQXE	AQXE	AQUIS EXCHANGE
BATE	BCXE	CBOE Europe - BXE Order Books
CHIX	BCXE	CBOE Europe - CXE Order Books
TRQX	TRQX	TURQUOISE
XLOM	XLON	LONDON STOCK EXCHANGE - MTF
XLON	XLON	LONDON STOCK EXCHANGE

### Auction Opening, Closing or Intraday auctions on displayed

MIC	Operating MIC	Description
AIMX-AUC*	XLON	LONDON STOCK EXCHANGE - AIM MTF
XLOM-AUC*	XLON	LONDON STOCK EXCHANGE - MTF
XLON-AUC*	XLON	LONDON STOCK EXCHANGE

### Bank SI Bank/Broker Operated Systematic Internalisers

MIC	Operating MIC	Description
BCSI	BCSL	BARCLAYS CAPITAL SECURITIES LIMITED - SYSTEMATIC INTERNALISER
CSSI	CSIN	CREDIT SUISSE INTERNATIONAL - SYSTEMATIC INTERNALISER
SICS	CSEU	CREDIT SUISSE SECURITIES (EUROPE) LIMITED - SYSTEMATIC INTERNALISER
UBSY	UBSB	UBS AG LONDON BRANCH - SYSTEMATIC INTERNALISER

### ELP SI Electronic Market Maker SIs

MIC	Operating MIC	Description
CCEU	CCEU	CITADEL CONNECT EUROPE - SYSTEMATIC INTERNALISER
HRSI	HRSI	HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER
JSSI	JSSI	JANE STREET FINANCIAL LTD - SYSTEMATIC INTERNALISER
TRSI	TRSI	TOWER RESEARCH CAPITAL EUROPE LTD
XTXM	XTXM	XTX MARKETS

### Dark Non-displayed liquidity

MIC	Operating MIC	Description
BATD	BCXE	CBOE Europe - BXE Dark Order Books
BLOX	XIEL	BLOCKMATCH
CHID	BCXE	CBOE Europe - CXE Dark Order Books
CSEU	CSEU	CREDIT SUISSE (EUROPE)
LIQU	LIQU	LIQUIDNET SYSTEMS
SGMX	SGMX	SIGMA X MTF

# UK Venues

Dark			Non-displayed liquidity
MIC	Operating MIC	Description	
TRQM	TRQX	TURQUOISE DARK	
XPOL	VIUK	POSIT DARK UK	
XUBS	XUBS	UBS MTF	

Grey			Non-Displayed orders on displayed order books
MIC	Operating MIC	Description	
CHIX-MID*	BCXE	CBOE EUROPE – CXE HIDDEN MIDPOINT	
XLON-MID*	XLON	London Stock Exchange - Hidden Midpoint	

Periodic Auction			Frequent batch auction venues
MIC	Operating MIC	Description	
BATP	BCXE	CBOE Europe - BXE Periodic Auctions	
SGMY	SGMX	SIGMA X MTF - AUCTION BOOK	
TRQA	TRQX	TURQUOISE LIT AUCTIONS	
XUMP	XUBS	UBS MTF - PERIODIC AUCTION	

Conditional			Pools supporting conditional indications
MIC	Operating MIC	Description	
LIQU-CON*	LIQU	LIQUIDNET SYSTEMS	
LISX	BCXE	CBOE Europe - LIS Service	
TRQM-BDS*	TRQX	TURQUOISE PLATO	
XPOL-CON*	VIUK	POSIT DARK	
XSMP	XLDN	SMARTPOOL	

# EMEA ex. UK Venues

Lit			Displayed, central-limit order books
MIC	Operating MIC	Description	
ALXP	XPAR	EURONEXT - ALTERNEXT PARIS	
AQEU	AQEU	AQUIS EXCHANGE EUROPE	
ASEX	ASEX	ATHENS STOCK EXCHANGE	
CEUX	CCXE	CBOE EUROPE - DXE ORDER BOOKS (NL)	
FNDK	XCSE	FIRST NORTH DENMARK	
FNFI	XHEL	FIRST NORTH FINLAND	
FNSE	XSTO	FIRST NORTH SWEDEN	
HAMB	XHAM	BOERSE HAMBURG - FREIVERKEHR	
HANA	XHAN	BOERSE HANNOVER - REGULIERTER MARKT	
MTAA	XMIL	BORSA ITALIANA - ELECTRONIC SHARE MARKET	
ONSE	XSTO	FIRST NORTH SWEDEN - NORWAY	
SSME	XSTO	FIRST NORTH SWEDEN - SME GROWTH MARKET	
TQEX	TQEX	TURQUOISE EUROPE	
WBAH	XWBO	WIENER BOERSE AG AMTLICHER HANDEL (OFFICIAL MARKET)	
XAIM	XMIL	AIM ITALIA - MERCATO ALTERNATIVO DEL CAPITALE	
XAMS	XAMS	EURONEXT - EURONEXT AMSTERDAM	
XATH	ASEX	ATHENS EXCHANGE S.A. CASH MARKET	
XBRU	XBRU	EURONEXT - EURONEXT BRUSSELS	
XBUD	XBUD	BUDAPEST STOCK EXCHANGE	
XCEG	XWBO	WIENER BOERSE AG, CEGH GAS EXCHANGE	
XCSE	XCSE	NASDAQ COPENHAGEN A/S	
XDUB	XDUB	IRISH STOCK EXCHANGE - ALL MARKET	
XEQT	XBER	BOERSE BERLIN EQUIDUCT TRADING	
XESM	XDUB	IRISH STOCK EXCHANGE - ENTREPRISE SECURITIES MARKET	
XETA	XETR	XETRA - REGULIERTER MARKT	
XETB	XETR	XETRA - FREIVERKEHR	
XETR	XETR	XETRA	
XETS	XETR	XETRA - SCALE	
XFRA	XFRA	DEUTSCHE BOERSE AG	
XHEL	XHEL	NASDAQ HELSINKI LTD	
XIST	XIST	BORSA ISTANBUL	
XJSE	XJSE	JOHANNESBURG STOCK EXCHANGE	
XLIS	XLIS	EURONEXT - EURONEXT LISBON	
XMAD	BMEX	BOLSA DE MADRID	
XMCE	BMEX	MERCADO CONTINUO ESPANOL - CONTINUOUS MARKET	
XMIL	XMIL	BORSA ITALIANA S.P.A.	
XMSM	XDUB	DUBLIN - IRISH STOCK EXCHANGE - MAIN SECURITIES MARKET (MSM)- ISE XETRA	
XNGM	XNGM	NORDIC GROWTH MARKET	
XOSL	XOSL	OSLO BORS ASA	
XPAR	XPAR	EURONEXT - EURONEXT PARIS	
XPRA	XPRA	PRAGUE STOCK EXCHANGE	

# EMEA ex. UK Venues

<b>Lit</b>			Displayed, central-limit order books
MIC	Operating MIC	Description	
XSTO	XSTO	NASDAQ STOCKHOLM AB	
XSWX	XSWX	SIX SWISS EXCHANGE	
XTAE	XTAE	TEL AVIV STOCK EXCHANGE	
XVIE	XWBO	WIENER BOERSE AG, WERTPAPIERBOERSE (SECURITIES EXCHANGE)	
XWAR	XWAR	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	
XWBO	XWBO	WIENER BOERSE AG	

<b>Auction</b>			Opening, Closing or Intraday auctions on displayed
MIC	Operating MIC	Description	
ASEX-AUC*	ASEX	ATHENS STOCK EXCHANGE	
MTAA-AUC*	XMIL	ELECTRONIC SHARE MARKET	
WBAH-AUC*	XWBO	WIENER BOERSE AG AMTLICHER HANDEL (OFFICIAL MARKET)	
XAIM-AUC*	XMIL	AIM ITALIA - MERCATO ALTERNATIVO DEL CAPITALE	
XAMS-AUC*	XAMS	EURONEXT - EURONEXT AMSTERDAM	
XATH-AUC*	ASEX	ATHENS EXCHANGE S.A. CASH MARKET	
XBUD-AUC*	XBUD	BUDAPEST STOCK EXCHANGE	
XCSE-AUC*	XCSE	NASDAQ COPENHAGEN A/S	
XDUB-AUC*	XDUB	IRISH STOCK EXCHANGE - ALL MARKET	
XETA-AUC*	XETR	XETRA - REGULIERTER MARKT	
XETR-AUC*	XETR	XETRA	
XFRA-AUC*	XFRA	DEUTSCHE BOERSE AG	
XHEL-AUC*	XHEL	NASDAQ HELSINKI LTD - Auction	
XIST-AUC*	XIST	BORSA ISTANBUL	
XJSE-AUC*	XJSE	JOHANNESBURG STOCK EXCHANGE	
XLIS-AUC*	XLIS	EURONEXT - EURONEXT LISBON	
XMAD-AUC*	BMEX	BOLSA DE MADRID	
XMIL-AUC*	XMIL	BORSA ITALIANA S.P.A.	
XOSL-AUC*	XOSL	OSLO BORS	
XPAR-AUC*	XPAR	EURONEXT - EURONEXT PARIS	
XPRA-AUC*	XPRA	PRAGUE STOCK EXCHANGE	
XSTO-AUC*	XSTO	NASDAQ STOCKHOLM AB	
XSWX-AUC*	XSWX	SIX SWISS EXCHANGE	
XTAE-AUC*	XTAE	TEL AVIV STOCK EXCHANGE	
XVIE-AUC*	XWBO	WIENER BOERSE AG, WERTPAPIERBOERSE (SECURITIES EXCHANGE)	
XWAR-AUC*	XWAR	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	
XWBO-AUC*	XWBO	WIENER BOERSE AG	

<b>Bank SI</b>			Bank/Broker Operated Systematic Internalisers
MIC	Operating MIC	Description	
BBIS	BBIE	BARCLAYS BANK IRELAND PLC - SYSTEMATIC INTERNALISER	

# EMEA ex. UK Venues

## Bank SI Bank/Broker Operated Systematic Internalisers

MIC	Operating MIC	Description
JPEU	JPEU	J.P. MORGAN AG - SYSTEMATIC INTERNALISER
UBSI	UBSL	UBS LIMITED EMEA TRADING - SYSTEMATIC INTERNALISER

## ELP SI Electronic Market Maker SIs

MIC	Operating MIC	Description
EQTA-OPT*	XBER	BOERSE BERLIN EQUIDUCT TRADING - REGULIERTER MARKT
EQTB-OPT*	XBER	BOERSE BERLIN EQUIDUCT TRADING - BERLIN SECOND REGULATED MARKET
EQTC-OPT*	XBER	BOERSE BERLIN EQUIDUCT TRADING - FREIVERKEHR
EUCC	EUCC	CITADEL CONNECT EUROPE - EU - SYSTEMATIC INTERNALISER
HREU	HREU	HRTEU LIMITED - SYSTEMATIC INTERNALISER
TOWR	TOWR	TOWER RESEARCH CAPITAL EUROPE - SYSTEMATIC INTERNALISER
XTXE	XTXE	XTX MARKETS SAS

## Dark Non-displayed liquidity

MIC	Operating MIC	Description
CEUD	CCXE	CBOE EUROPE - DXE DARK ORDER BOOK (NL)
DCSE	XCSE	NASDAQ COPENHAGEN A/S - NORDIC@MID
DHEL	XHEL	NASDAQ HELSINKI LTD - NORDIC@MID
DNDK	XCSE	FIRST NORTH DENMARK - NORDIC@MID
DNFI	XHEL	FIRST NORTH FINLAND - NORDIC@MID
DNSE	XSTO	FIRST NORTH SWEDEN - NORDIC@MID
DSTO	XSTO	NASDAQ STOCKHOLM AB - NORDIC@MID
LEUE	LEUE	LIQUIDNET EU LIMITED EQUITY MTF
SGMU	SGMU	SIGMA X EUROPE NON-DISPLAYED BOOK
TQEM	TQEX	TURQUOISE EUROPE - DARK
XPOS	ITGL	POSIT
XSWM	XSWX	SIX SWISS EXCHANGE - SIX SWISS EXCHANGE AT MIDPOINT

## Grey Non-Displayed orders on displayed order books

MIC	Operating MIC	Description
CEUX-MID*	CCXE	CEUX - Midpoint
XCSE-MID*	XCSE	NASDAQ COPENHAGEN A/S - NORDIC@MID
XHEL-MID*	XHEL	NASDAQ HELSINKI LTD - NORDIC@MID
XSTO-MID*	XSTO	NASDAQ STOCKHOLM AB - NORDIC@MID

## Periodic Auction Frequent batch auction venues

MIC	Operating MIC	Description
BEUP	CCXE	CBOE EUROPE - DXE PERIODIC (NL)
MCSE	XCSE	NASDAQ COPENHAGEN A/S AUCTION ON DEMAND
MHEL	XHEL	NASDAQ HELSINKI LTD "AUCTION ON DEMAND"

# EMEA ex. UK Venues

## Periodic Auction

## Frequent batch auction venues

MIC	Operating MIC	Description
MNDK	XCSE	FIRST NORTH DENMARK - AUCTION ON DEMAND
MNFI	XHEL	FIRST NORTH FINLAND - AUCTION ON DEMAND
MNSE	XSTO	FIRST NORTH SWEDEN " AUCTION ON DEMAND
MSTO	XSTO	NASDAQ STOCKHOLM AB " AUCTION ON DEMAND
SGMV	SGMU	SIGMA X EUROPE AUCTION BOOK
TQEA	TQEX	TURQUOISE EUROPE - LIT AUCTIONS
XPAC	ITGL	POSIT AUCTION
XPAL	VIUK	Posit Auction UK

## Conditional

## Pools supporting conditional indications

MIC	Operating MIC	Description
LEUE-CON*	LEUE	LIQUIDNET SYSTEMS (EUROPE)
LISZ	CCXE	CBOE EUROPE - LIS SERVICE (NL)
TQEM-BDS*	TQEX	TURQUOISE PLATO (EUROPE)
XPOS-CON*	ITGL	POSIT DARK

## Off-Book

## Off-Book Trading

MIC	Operating MIC	Description
BATF	BCXE	CBOE Europe - BXE Off-Book
CEUO	CCXE	CBOE EUROPE - DXE OFF-BOOK (NL)
EQTA	XBER	BOERSE BERLIN EQUIDUCT TRADING - REGULIERTER MARKT
EQTB	XBER	BOERSE BERLIN EQUIDUCT TRADING - BERLIN SECOND REGULATED MARKET
EQTC	XBER	BOERSE BERLIN EQUIDUCT TRADING - FREIVERKEHR

# North America Venues

Lit			Displayed, central-limit order books
MIC	Operating MIC	Description	
ARCX	XNYS	NYSE ARCA	
BATS	XCBO	BATS Z-EXCHANGE	
BATY	XCBO	BATS Y - EXCHANGE, INC.	
CBSX	XCBO	CBOE STOCK EXCHANGE	
CHIC	CHIC	CHI-X CANADA ATS	
EDGA	XCBO	EDGA EXCHANGE	
EDGX	XCBO	EDGX EXCHANGE	
EPRL	MIHI	MIAX PEARL EQUITIES	
GLPX	GLPX	ACS EXECUTION SERVICES, LLC	
IEXG	IEXG	INVESTORS EXCHANGE	
MEMX	MEMX	MEMX LLC	
MPRL	MIHI	MIAX PEARL, LLC	
NEOE	NEOE	NEO EXCHANGE	
OMGA	OMGA	OMEGA ATS	
PURE	XCNQ	PURE TRADING	
XASE	XNYS	NYSE MKT LLC	
XATS	XATS	ALPHA EXCHANGE	
XBOS	XNAS	NASDAQ OMX BX	
XCHI	XNYS	CHICAGO STOCK EXCHANGE, INC	
XCIS	XNYS	NATIONAL STOCK EXCHANGE, INC.	
XCNQ	XCNQ	CANADIAN NATIONAL STOCK EXCHANGE	
XCX2	CHIC	CX2	
XCXD	XCXD	NASDAQ CXD	
XNAS	XNAS	NASDAQ - ALL MARKETS	
XNGS	XNAS	NASDAQ/NGS (GLOBAL SELECT MARKET)	
XNMS	XNAS	NASDAQ/NMS (GLOBAL MARKET)	
XNYS	XNYS	NEW YORK STOCK EXCHANGE, INC.	
XPHL	XNAS	NASDAQ OMX PHLX	
XPSX	XNAS	NASDAQ OMX PSX	
XTSE	XTSE	TORONTO STOCK EXCHANGE	

ELP SI			Electronic Market Maker SIs
MIC	Operating MIC	Description	
CDED	CDED	CITADEL SECURITIES	
HRTF	HRTF	HUDSON RIVER TRADING (HRT)	
JSES	JSES	JANE STREET EXECUTION SERVICES LLC	
JSJX	JSJX	JANE STREET JX	
XTXD	XTXD	XTX DIRECT	

# North America Venues

Dark			Non-displayed liquidity
MIC	Operating MIC	Description	
ASPN	INCR	INTELLIGENTCROSS ASPEN INTELLIGENT BID/OFFER	
BAML	BAML	BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	
BARX	BARX	BARCLAYS ATS	
BNPC	BNPC	BNPP CORTEX ATS	
CAES	CRED	CREDIT SUISSE AES CROSSFINDER	
CICX	CGMI	CITI CROSS	
CODA	CODA	CODA MARKETS - MICRO AND BLOCK	
CPGX	CPGX	CLEARPOOL EXECUTION SERVICES, LLC	
DBSX	DBSX	DEUTSCHE BANK SUPER X	
ICBX	XINS	INSTINET CBX (US)	
IMCS	IMCS	IMC FINANCIAL MARKETS	
INCR	INCR	INTELLIGENTCROSS	
ITGI	ITGI	ITG - POSIT	
JPBX	JPBX	JPBX	
JPMX	JPMX	JPMX	
KNLI	KNIG	KNIGHT LINK	
LEVL	LEVL	LEVEL ATS	
MLVX	BAML	BANK OF AMERICA - MERRILL LYNCH VWAP CROSS	
MSPL	MSCO	MS POOL	
NMRA	NMRA	NOMURA SECURITIES INTERNATIONAL	
PDQX	PDQX	PDQ ATS	
SGMA	SGMA	GOLDMAN SACHS	
SGMT	GSCO	SIGMA X2	
SOHO	SOHO	TWO SIGMA SECURITIES, LLC	
UBSA	UBSA	UBS ATS	
VFMI	VUSA	VIRTUE MATCHITATS	
XSTM	NFSC	FIDELITY CROSSSTREAM ATS	

Grey			Non-Displayed orders on displayed order books
MIC	Operating MIC	Description	
ARCD	XNYS	ARCA DARK	
BATS-GRY*	XCBO	BATS/DARKAGG	
BOSD	XNAS	NASDAQ OMX BX DARK	
BYXD	XCBO	BATS Y-EXCHANGE DARK	
BZXD	XCBO	BATS Z - EXCHANGE DARK	
EDDP	XCBO	EDGX EXCHANGE DARK	
EDGD	XCBO	EDGA EXCHANGE DARK	
IEXD	IEXG	INVESTORS EXCHANGE - DARK	
IEXG-GRY*	IEXG	INVESTORS EXCHANGE	
MELO	XNAS	NASDAQ MIDPOINT-ELO (M-ELO)	
NASD	XNAS	NSDQ DARK	



# North America Venues

## Grey

Non-Displayed orders on displayed order books

MIC	Operating MIC	Description
NYSE	XNYS	NYSE DARK
XNAS-GRY*	XNAS	XNAS/DARKAGG
XNYS-GRY*	XNYS	XNYS/DARKAGG

## Conditional

Pools supporting conditional indications

MIC	Operating MIC	Description
AQUA	AQUA	AQUA EQUITIES L.P.
BIDS	BIDS	BIDS TRADING L.P.
BLKX	XINS	INSTINET BLOCKCROSS
CBLC	CGMI	CITIBLOC
ITGI-CON*	ITGI	ITG - POSIT
LIUH	LIUS	LIQUIDNET, INC. H2O ATS

## Off-Book

Off-Book Trading

MIC	Operating MIC	Description
EBXV	LEVL	LEVEL ATS - VWAP CROSS
MLCO	BAML	BANK OF AMERICA - MERRILL LYNCH OTC
OTCN	OTCN	OTC LINK ECN
XOTC	XOTC	OTCBB

**Venues marked with a "\*" are not official ISO venues, these codes are unique to Redburn and are used to differentiate different flow types within post-trade reports. These will not be returned as execution venues via FIX.**

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