

# List of Approved Trading Venues

14 December 2018

REDBURN  
EXECUTION

## EMEA

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MIC	OPERATING MIC	DESCRIPTION
UBSY	UBSB	UBS AG LONDON BRANCH - SYSTEMATIC INTERNALISER

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### Lit

Displayed, central-limit order books

MIC	OPERATING MIC	DESCRIPTION
ALXP	XPAR	EURONEXT - ALTERNEXT PARIS
AQXE	AQXE	AQUIS EXCHANGE
BATE	BCXE	CBOE Europe - BXE Order Books
CHIX	BCXE	CBOE Europe - CXE Order Books
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
FNFI	XHEL	FIRST NORTH FINLAND
FNSE	XSTO	FIRST NORTH SWEDEN
MTAA	XMIL	BORSA ITALIANA - ELECTRONIC SHARE MARKET
TRQX	TRQX	TURQUOISE
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
XCSE	XCSE	NASDAQ COPENHAGEN A/S
XDUB	XDUB	IRISH STOCK EXCHANGE - ALL MARKET
XESM	XDUB	IRISH STOCK EXCHANGE - ENTREPRISE SECURITIES MARKET
XETA	XETR	XETRA - REGULIERTER MARKT
XETB	XETR	XETRA - FREIVERKEHR
XETR	XETR	XETRA
XHEL	XHEL	NASDAQ HELSINKI LTD
XJSE	XJSE	JOHANNESBURG STOCK EXCHANGE
XLIS	XLIS	EURONEXT - EURONEXT LISBON
XLON	XLON	LONDON STOCK EXCHANGE
XMAD	BMEX	BOLSA DE MADRID
XMSM	XDUB	DUBLIN - IRISH STOCK EXCHANGE - MAIN SECURITIES MARKET (MSM)- ISE X
XOSL	XOSL	OSLO BORS ASA
XPAR	XPAR	EURONEXT - EURONEXT PARIS
XSTO	XSTO	NASDAQ STOCKHOLM AB
XSWX	XSWX	SIX SWISS EXCHANGE
XVIE	XWBO	WIENER BOERSE AG, WERTPAPIERBOERSE (SECURITIES EXCHANGE)
XVTX	XSWX	SIX SWISS EXCHANGE - BLUE CHIPS SEGMENT
XWBO	XWBO	WIENER BOERSE AG
AIMX	XLON	LONDON STOCK EXCHANGE - AIM MTF
XLOM	XLON	LONDON STOCK EXCHANGE - MTF
ONSE	XSTO	FIRST NORTH SWEDEN - NORWAY

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### SI

Systematic Internalisers

MIC	OPERATING MIC	DESCRIPTION
CGME	CGML	CITI MATCH
GSSI	GSIL	GOLDMAN SACHS INTERNATIONAL - SYSTEMATIC INTERNALISER
JPSI	JPSI	J.P. MORGAN SECURITIES PLC
SSWM	SSWM	SSW MARKET MAKING - SYSTEMATIC INTERNALISER
SICS	CSEU	CREDIT SUISSE SECURITIES (EUROPE) LIMITED - SYSTEMATIC INTERNALISER
JSSI	JSSI	JANE STREET FINANCIAL LTD - SYSTEMATIC INTERNALISER
DBES	DBAG	DEUTSCHE BANK AG OPERATING MARKET CODE FOR EU SYSTEMATIC INTERNALIS
TRSI	TRSI	TOWER RESEARCH CAPITAL EUROPE LTD
UBSI	UBSL	UBS LIMITED EMEA TRADING - SYSTEMATIC INTERNALISER
VFSI	VFIL	VIRTU FINANCIAL IRELAND LIMITED - SYSTEMATIC INTERNALISER
BCSI	BCSL	BARCLAYS CAPITAL SECURITIES LIMITED - SYSTEMATIC INTERNALISER
XTXM	XTXM	XTX MARKETS
CCEU	CCEU	CITADEL CONNECT EUROPE - SYSTEMATIC INTERNALISER
HRSI	HRSI	HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER

### Dark

Non-displayed, midpoint liquidity

MIC	OPERATING MIC	DESCRIPTION
BATD	BCXE	CBOE Europe - BXE Dark Order Books
BLOX	XIEL	BLOCKMATCH
CHID	BCXE	CBOE Europe - CXE Dark Order Books
DCSE	XCSE	NASDAQ COPENHAGEN A/S - NORDIC@MID
DHEL	XHEL	NASDAQ HELSINKI LTD - NORDIC@MID
DSTO	XSTO	NASDAQ STOCKHOLM AB - NORDIC@MID
LIQU	LIQU	LIQUIDNET SYSTEMS
SGMX	SGMX	SIGMA X MTF
TRQM	TRQX	TURQUOISE DARK
XPOS	ITGL	POSIT
XSWM	XSWX	SIX SWISS EXCHANGE - SIX SWISS EXCHANGE AT MIDPOINT
XUBS	XUBS	UBS MTF
BRFQ	XIEL	BLOCKMATCH MTF RFQ

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### Periodic Auction

Regular auctions offering mid-point execution

MIC	OPERATING MIC	DESCRIPTION
BATP	BCXE	CBOE Europe - BXE Periodic Auctions
MCSE	XCSE	NASDAQ COPENHAGEN A/S AUCTION ON DEMAND
MHEL	XHEL	NASDAQ HELSINKI LTD – AUCTION ON DEMAND
MSTO	XSTO	NASDAQ STOCKHOLM AB – AUCTION ON DEMAND
SGMY	SGMX	SIGMA X MTF - AUCTION BOOK
XPAC	ITGL	POSIT AUCTION
TRQA	TRQX	TURQUOISE LIT AUCTIONS
AQXA	AQXE	AQUIS AUCTION ON DEMAND (AOD)

### Conditional

Pools supporting conditional indications

MIC	OPERATING MIC	DESCRIPTION
LISX	BCXE	CBOE Europe - LIS Service
XSMP	XLDN	SMARTPOOL
TRQM	TRQX	TURQUOISE DARK

### Off-Book

Off-Book Trading

MIC	OPERATING MIC	DESCRIPTION
BATF	BCXE	CBOE Europe - BXE Off-Book
XOFF	XOFF	OFF - EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS

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## North America

<b>Lit</b>			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	
EDGA	XCBO	EDGA EXCHANGE	
EDGX	XCBO	EDGX EXCHANGE	
IEXG	IEXG	INVESTORS EXCHANGE	
XASE	XNYS	NYSE MKT LLC	
XBOS	XNAS	NASDAQ OMX BX	
XCHI	XCHI	CHICAGO STOCK EXCHANGE, INC	
XCIS	XCIS	NATIONAL STOCK EXCHANGE, INC.	
XNAS	XNAS	NASDAQ - ALL MARKETS	
XNGS	XNAS	NASDAQ/NGS (GLOBAL SELECT MARKET)	
XNYS	XNYS	NEW YORK STOCK EXCHANGE, INC.	
XPHL	XNAS	NASDAQ OMX PHLX	
XPSX	XNAS	NASDAQ OMX PSX	

<b>Dark</b>			Non-displayed, midpoint liquidity
MIC	OPERATING MIC	DESCRIPTION	
BAML	BAML	BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	
BARX	BARX	BARCLAYS ATS	
CAES	CRED	CREDIT SUISSE AES CROSSFINDER	
CDED	CDED	CITADEL SECURITIES	
CICX	CGMI	CITI CROSS	
DBSX	DBSX	DEUTSCHE BANK SUPER X	
GTCO	GTCO	KCG AMERICAS LLC	
ICBX	XINS	INSTINET CBX (US)	
ITGI	ITGI	ITG - POSIT	
JPMX	JPMX	JPMX	
JSES	JSES	JANE STREET EXECUTION SERVICES LLC	
JSJX	JSJX	JANE STREET JX	
KNLI	KNIG	KNIGHT LINK	
KNMX	KNIG	KNIGHT MATCH ATS	
LEVL	LEVL	LEVEL ATS	
MLVX	BAML	BANK OF AMERICA - MERRILL LYNCH VWAP CROSS	
MSPL	MSCO	MS POOL	
NYFX	BNYC	MILLENNIUM	
PDQD	PDQX	PDQ ATS DARK	
PDQX	PDQX	PDQ ATS	
PULX	PULX	BLOCKCROSS ATS	
SGMA	SGMA	GOLDMAN SACHS	

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## North America

### Dark

Non-displayed, midpoint liquidity

MIC	OPERATING MIC	DESCRIPTION
SGMT	GSCO	SIGMA X2
SOHO	SOHO	TWO SIGMA SECURITIES, LLC
UBSA	UBSA	UBS ATS
WELX	WELX	WELLS FARGO LIQUIDITY CROSS ATS
XSTM	NFSC	FIDELITY CROSSSTREAM ATS

### Grey

Non-Displayed orders on displayed order books

MIC	OPERATING MIC	DESCRIPTION
ARCD	XNYS	ARCA DARK
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
NASD	XNAS	NSDQ DARK
NYSD	XNYS	NYSE DARK
IEXD	IEXG	INVESTORS EXCHANGE - DARK

### Conditional

Pools supporting conditional indications

MIC	OPERATING MIC	DESCRIPTION
AQUA	AQUA	AQUA EQUITIES L.P.
BIDS	BIDS	BIDS TRADING L.P.
CBLC	CGMI	CITIBLOC
LIUH	LIUS	LIQUIDNET, INC. H2O ATS
BLKX	BLKX	INSTINET BLOCKCROSS

### Off-Book

Off-Book Trading

MIC	OPERATING MIC	DESCRIPTION
MLCO	BAML	BANK OF AMERICA - MERRILL LYNCH OTC
XOTC	XOTC	OTCBB

### Notes

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This document outlines the standard set of venues targeted by Redburn's trading strategies. This list is subject to change, and the exact venues targeted will be dependent on individual strategies and client agreements.

Each MIC is categorised according to the default style of liquidity from the associated venue. Where venues support multiple execution styles under a single MIC (e.g. TRQM supports both Dark and Conditional liquidity) it will be listed under the category that provides the majority of executions.

Where no Operating MIC is shown, these values represent industry standard codes for venues that are not listed within ISO10383.