

LIST OF EXECUTION VENUES

MAINFIRST AFFILIATED
FUND MANAGERS
(DEUTSCHLAND) GMBH

2022

Exchange	MIC
Athens Derivatives Exchange (ADEX)	ADEX
LONDON STOCK EXCHANGE - AIM MTF	AIMX
EURONEXT GROWTH BRUSSELS	ALXB
EURONEXT GROWTH PARIS	ALXP
AQUA	AQUA
Aquis Auction on Demand	AQXA
Aquis	AQXE
ARCA DARK	ARCD
NYSE ARCA	ARCX
Australian Securities Exchange (ASX)	ASX
AUSTRALIAN STOCK EXCHANGE	ASX24
ASX Centre Point	ASXC
BAML Instinct X	BAML
Barclays LX	BARD
Barclays LX	BARX
BATS	BATD
BATS	BATE
BATS EUROPE ± BATS OFF-BOOK	BATF
BATS Periodic Auction	BATP
BATS BZX	BATS
BATS BYX	BATY
BARCLAYS CAPITAL SECURITIES LIMITED - SYSTEMATIC INTERNALISER	BCSI
BIDS	BIDS
INSTINET BLOCKCROSS	BLKX
Instinet BlockMatch	BLOX
Baltex Freight Derivatives Market (BLTX)	BLTX
Instinet BLX	BLXA
BOLSA DE MERCADORIAS & FUTUROS	BM&F
Bursa Malaysia Derivatives (BMD)	BMD
BM&F Bovespa* (BOLSA)	BOLSA
NASDAQ OMX BX DARK	BOSD
Boston Options Exchange* (BOX)	BOX
BLOCKMATCH MTF RFQ	BRFQ
BATS Y-EXCHANGE DARK	BYXD
BATS Exchange* (BZX)	BZX
BATS Z - EXCHANGE DARK	BZXD
Credit Suisse Crossfinder Hong Kong/Japan	CAES
Cantor Fitzgerald	CANT
CITIBLOC	CBLC
C2 Options Exchange* (CBOE)	CBOE
Chicago Board of Trade* (CBOT)	CBOT
CBOE STOCK EXCHANGE	CBSX
CITADEL CONNECT EUROPE - SYSTEMATIC INTERNALISER	CCEU
Citadel Connect	CDED
Credit Suisse Crossfinder Australia	CFAU
CBOE Futures Exchange (CFE)	CFE

China Financial Futures Exchange (CFFEX)	CFFEX
CITI MATCH	CGME
Chi-X Australia	CHIA

Chi-X	CHIC
Chi-X Delta	CHID
Chi-X Japan	CHIJ
Chi-X	CHIX
CitiCross	CICX
Citi Match	CITX
Chicago Mercantile Exchange (CME)	CME
Commodity Exchange (COMEX)	COMEX
Credit Suisse Crossfinder Australia	CSCF
Chi-X Australia Mid-Point	CXAP
DEUTSCHE BANK AG OPERATING MARKET CODE FOR EU SYSTEMATIC INTERNALIS	DBES
Deutsche Bank SuperX ATS	DBSX
Dalian Commodity Exchange (DCE)	DCE
NASDAQ COPENHAGEN A/S - NORDIC@MID	DCSE
NASDAQ HELSINKI LTD - NORDIC@MID	DHEL
Dubai Mercantile Exchange (DME)	DME
FIRST NORTH DENMARK - NORDIC@MID	DNDK
FIRST NORTH FINLAND - NORDIC@MID	DNFI
FIRST NORTH SWEDEN - NORDIC@MID	DNSE
NASDAQ STOCKHOLM AB - NORDIC@MID	DSTO
EDGX EXCHANGE DARK	EDDP
BATS EDGA Exchange	EDGA
EDGA EXCHANGE DARK	EDGD
BATS EDGX Exchange	EDGX
LSE DERIVATIVES	EDX
European Energy Exchange (EEX)	EEX
Electronic Liquidity Exchange (ELX)	ELX
ENDEX	ENDEX
EURONEXT BRUSSELS	ENX-BE
EURONEXT PARIS	ENX-FR
EURONEXT AMSTERDAM	ENX-NL
EURONEXT LISBON	ENX-PT
BOERSE BERLIN EQUIDUCT TRADING - REGULIERTER MARKT	EQTA
BOERSE BERLIN EQUIDUCT TRADING - BERLIN SECOND REGULATED MARKET	EQTB
BOERSE BERLIN EQUIDUCT TRADING - FREIVERKEHR	EQTC
MILAN - ELECTRONIC ETF, ETC/ETN, FUND MARKET	ETFP
EUREX	EUREX
Eurex* (EX)	EX
LCH ENCLEAR	FFTFW
FIRST NORTH DENMARK	FNDK
FIRST NORTH FINLAND	FNFI
FIRST NORTH SWEDEN	FNSE
Futures and Options on Russian Trading System (FORTS)	FORTS

GOLDMAN SACHS INTERNATIONAL - SI	GSSI
KCG AMERICAS LLC	GTCO
Global Trading Systems	GTSX
Convergex Helix	HELI
Hong Kong Exchanges and Clearing Ltd (HKEx)	HKEx
Hrteu Limited - Systematic Internaliser	HREU
Hudson River Trading (SI)	HRSI

Instinet CBX	ICBX
ICE Futures Europe (ICE EU)	ICE EU
ICE FUTURES SINGAPORE	ICESG
Borsa Italia (IDEM)	IDEM
INVESTORS EXCHANGE - DARK	IEXD
IEX Group	IEXG
ICE FUTURES CANADA	IFCA
ICE FUTURES EUROPE	IFEU
ICE FUTURES US	IFUS
NASDAQ OMX COMMODITIES	IMAREX
IMC	IMCS
Intelligent Cross	INCR
International Securities Exchange* (ISE)	ISE
ITG Posit	ITGI
JP Morgan JPBX	JPBX
JP Morgan JPM-X ATS	JPMX
J.P. MORGAN SECURITIES PLC	JPSI
JAPAN EXCHANGE (TSE & OSE)	JPX
Johannesburg Stock Exchange (JSE / SAFEX)	JSE
JANE STREET EXECUTION SERVICES LLC	JSES
Jane Street	JSJX
JANE STREET FINANCIAL LTD - SI	JSSI
Kai-X Japan	KAIX
KCG Acknowledge	KNLI
KCG MatchIt	KNMX
Korea Exchange (KRX)	KRX
Lampost Trading	LAMP
Liquidnet EU Limited Equity MTF	LEUE
Level ATS	LEVL
Liquidnet	LICA
ICE FUTURES EUROPE	LIFFE
Liquidnet Europe Limited	LIQF
Liquidnet H20	LIQH
Liquidnet SYSTEMS	LIQU
CBOE EUROPE - LIS SERVICE	LISX
Liquidnet H20	LIUH
Liquidnet Negotiated	LIUS
London Metal Exchange (LME)	LME
London Stock Exchange	LSE

Omega Lynx	LYNX
Magma	MAGM
Macquarie	MAQX
MATCH Now ATS	MATN
NASDAQ COPENHAGEN A/S – AUCTION ON DEMAND	MCSE
MONTREAL EXCHANGE	ME
Mercado Espanol de Futuros Financieros (MEFF)	MEFF
MEFF	MEFF RV
Nasdaq Midpoint-ELO (M-ELO)	MELO
MERKUR MARKET	MERK
Morgan Stanley Systematic Internaliser (Europe)	MESI

Mexican Derivatives Exchange (MexDer)	MexDer
Minneapolis Grain Exchange (MGEX)	MGEX
NASDAQ HELSINKI LTD – AUCTION ON DEMAND	MHEL
MICEX	MISX
BANK OF AMERICA - MERRILL LYNCH OTC	MLCO
MLI INSTINCT X SI	MLIX
MLI INSTINCT X SI RFQ	MLRQ
MLI INSTINCT X SI	MLSI
BANK OF AMERICA - MERRILL LYNCH VWAP CROSS	MLVX
FIRST NORTH DENMARK – AUCTION ON DEMAND	MNDK
FIRST NORTH FINLAND – AUCTION ON DEMAND	MNFI
FIRST NORTH SWEDEN – AUCTION ON DEMAND	MNSE
MS MTF Auction Book	MSAX
MS MTF dark	MSCX
	MSEU
Morgan Stanley Pool	MSPL
Morgan Stanley Systematic Internaliser	MSSI
NASDAQ STOCKHOLM AB – AUCTION ON DEMAND	MSTO
Borsa Italiana	MTAA
Montreal Exchange (MX)	MX
NSDQ DARK	NASD
Neo Exchange - Dark Market	NEOD
Aequitas Exchange	NEOE
NASDAQ FUTURES EXCHANGE	NFX
Natural Gas Exchange Inc. (NGX)	NGX
NASDAQ Options Market* (NOM)	NOM
NASDAQ OMX COMMODITIES	NORDPOOL
National Stock Exchange of India Ltd. (NSE)	NSE
Nomura NX	NXJP
Millennium	NYFX
NYMEX (NY Mercantile Exchange)	NYMEX
NYSE DARK	NYSD
Omega ATS	OMGA
NASDAQ OMX Nordic (OMX)	OMX
NASDAQ OMX NLX	OMX NLX

NASDAX OMX STOCKHOLM	OMX STO
NASDAQ OMX COPENHAGEN	OMXCPH
NASDAQ OMX HELSINKI	OMXHEL
ONE CHICAGO	ONEC
FIRST NORTH SWEDEN - NORWAY	ONSE
Osaka Securities Exchange (OSE)	OSE
WEINER BOURSE	OTOB
Weiner Borse.AT (OTOM)	OTOM
PDQ ATS DARK	PDQD
PDQ ATS	PDQX
Blockcross	PULX
Pure Exchange	PURE
GreTai	ROCO
SAFEX	SAFEX
Japannext	SBIJ

Goldman SigmaX	SGMA
SIGMA X2	SGMT
SIGMA X MTF	SGMX
SIGMA X MTF - AUCTION BOOK	SGMY
Singapore Exchange Derivatives Trading Limited (SGX)	SGX
Shanghai Futures Exchange (SHFE)	SHFE
CREDIT SUISSE SECURITIES (EUROPE) LIMITED - SYSTEMATIC INTERNALISER	SICS
Goldman Sachs SigmaX - Australia	SIGA
Goldman Sachs SigmaX - Japan	SIGJ
Two Sigma	SOHO
SUN TRADING INTERNATIONAL - SI	STSI
Taiwan Futures Exchange (TAIFEX)	TAIFEX
TURKDEX	TDE
Thailand Futures Exchange (TFEX)	TFEX
Tokyo Financial Exchange Inc (TFX)	TFX
Tokyo Commodity Exchange, Inc. (TOCOM)	TOCOM
Tora Crosspoint	TOCP
Turquoise	TRQA
Turquoise	TRQM
Turquoise	TRQX
TOWER RESEARCH CAPITAL EUROPE LTD - SI	TRSI
Tokyo Stock Exchange (TSE)	TSE
Turkish Derivatives Exchange (TurkDEX)	TurkDEX
UBS ATS	UBSA
UBS PIN	UBSE
UBS LIMITED EMEA TRADING - SYSTEMATIC INTERNALISER	UBSI
UBS PIN (US)	UBSP
UBS Cross	UBSX
Virtu Financial	VFCM
Virtu Matchit ATS	VFMI
VIRTU FINANCIAL IRELAND LIMITED - SI	VFSI

Virtu	VIRT
Wiener Borse AG	WBAH
WIENER BOERSE AG DRITTER MARKT	WBDM
WELLS FARGO LIQUIDITY CROSS ATS	WELX
Warsaw Stock Exchange (WSE)	WSE
AIM ITALIA - MERCATO ALTERNATIVO DEL CAPITALE	XAIM
Euronext Amsterdam	XAMS
NYSE MKT	XASE
ASX	XASX
ASE	XATH
TSX Alpha Exchange	XATS
BOLSA DE BARCELONA	XBAR
BOLSA DE VALORES DE BILBAO	XBIL
SET (Foreign)	XBKF
SET	XBKK
BSE	XBOM
NASDAQ OMX BX	XBOS
Euronext Brussels	XBRU
BSE	XBUD

BATS Y-EXCHANGE	XCBO
Chicago Stock Exchange	XCHI
NATIONAL STOCK EXCHANGE, INC.	XCIS
CSE	XCNQ
OMX Copenhagen	XCSE
Chi-X CX2	XCX2
Nasdaq CXD	XCXD
ISE	XDUB
Equiduct SpotVBBO	XEQT
IRISH STOCK EXCHANGE - ENTREPRISE SECURITIES MARKET	XESM
XETRA - REGULIERTER MARKT	XETA
Xetra - FREIVERKEHR	XETB
Deutsche Borse	XETR
OMX Helsinki	XHEL
HKEX	XHKG
IDX	XIDX
Istanbul	XIST
JASDAQ	XJAS
Johannesburg	XJSE
BURSA	XKLS
KRX	XKRX
LATIBEX	XLAT
Euronext Lisbon	XLIS
LONDON STOCK EXCHANGE - MTF	XLOM
LSE	XLON
Mercato Continuo Espanol	XMAD
Madrid	XMCE

Milan	XMIL
DUBLIN - IRISH STOCK EXCHANGE - MAIN SECURITIES MARKET (MSM)- ISE X	XMSM
NASDAQ - ALL MARKETS	XNAS
Nordic Growth	XNGM
NSE (Nagoya)	XNGO
NASDAQ/NGS (GLOBAL SELECT MARKET)	XNGS
NASDAQ	XNMS
NSE	XNSE
NYSE	XNYS
NZX (New Zealand)	XNZE
OSLO BORS ASA - OSLO AXESS LIT X AUCTIONS	XOAA
OSLO AXESS NORTH SEA - DARK POOL	XOAD
OSLO AXESS	XOAS
OFF - EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS	XOFF
Oslo Bors ASA	XOLS
OSLO BORS - LIT X AUCTIONS	XOSA
SLO BORS NORTH SEA - DARK POOL	XOSD
Oslo Bors	XOSL
OTCBB	XOTC
POSIT AUCTION	XPAC
Euronext Paris	XPAR
NASDAQ OMX PHLX	XPHL
PSE (Philippines)	XPHS

POSIT	XPOS
Prague	XPRA
ITG Posit	XPST
NASDAQ OMX PSX	XPSX
Aktientorget	XSAT
SGX	XSES
SZSE	XSHE
SHSE	XSHG
Smartpool	XSMP
Fidelity CrossStream	XSTM
OMX Stockholm	XSTO
SIX SWISS EXCHANGE - AT MIDPOINT	XSWM
SWX (SIXG)	XSWX
Tel Aviv	XTAE
TWSE	XTAI
TostNet	XTK1
TSE	XTKS
TMX Toronto Stock Exchange	XTSE
TMX Venture Exchange	XTSX
XTX Markets (SI)	XTXM
UBS MTF	XUBS
UBS MTF Periodic Auction	XUMP
BOLSA DE VALENCIA	XVAL
Vienna	XVIE
VIRT-X	XVTX
Warsaw	XWAR
Vienna	XWBO
Zhengzhou Commodity Exchange (ZCE)	ZCE