

Venue Type	Pre-Trade Transparent	Venue Name	MIC	Market	Member
RM	Yes	WIENER BOERSE AG	XWBO	Austria	Yes
RM	Yes	WIENER BOERSE AG AMTLICHER HANDEL	WBAH	Austria	Yes
RM	Yes	WIENER BOERSE AG DRITTER MARKT	WBDM	Austria	Yes
MTF	No	WIENER BOERSE AG MIDPOINT AMTLICHER HANDEL	WBMA	Austria	Yes
RM	Yes	EURONEXT - EURONEXT BRUSSELS	XBRU	Belgium	Yes
MTF	Yes	EURONEXT GROWTH BRUSSELS	ALXB	Belgium	Yes
MTF	Yes	EURONEXT ACCESS BRUSSELS	MLXB	Belgium	Yes
RM	No	EURONEXT BRUSSELS – DARK BOOK FACILITY	DBRU	Belgium	Yes
RM	Yes	PRAGUE STOCK EXCHANGE	XPRA	Czech Rep	No
MTF	Yes	PRAGUE STOCK EXCHANGE - MTF	XPRM	Czech Rep	No
RM	Yes	NASDAQ COPENHAGEN A/S	XCSE	Denmark	Yes
RM	No	NASDAQ COPENHAGEN A/S - NORDIC@MID	DCSE	Denmark	Yes
MTF	Yes	FIRST NORTH DENMARK	FNDK	Denmark	Yes
MTF	Yes	FIRST NORTH DENMARK - SME GROWTH MARKET	DSME	Denmark	Yes
MTF	No	FIRST NORTH DENMARK - NORDIC@MID	DNDK	Denmark	Yes
MTF	Yes	SPOTLIGHT STOCK MARKET DENMARK	SPDK	Denmark	No
RM	Yes	NASDAQ HELSINKI LTD	XHEL	Finland	Yes
RM	No	NASDAQ HELSINKI LTD - NORDIC@MID	DHEL	Finland	Yes
MTF	Yes	FIRST NORTH FINLAND	FNFI	Finland	Yes
MTF	Yes	FIRST NORTH FINLAND - SME GROWTH MARKET	FSME	Finland	Yes
MTF	No	FIRST NORTH FINLAND - NORDIC@MID	DNFI	Finland	Yes
MTF	Yes	SPOTLIGHT STOCK MARKET FINLAND	SPFI	Finland	No
RM	Yes	EURONEXT - EURONEXT PARIS	XPAR	France	Yes
MTF	Yes	EURONEXT GROWTH PARIS	ALXP	France	Yes
MTF	Yes	EURONEXT ACCESS PARIS	XMLI	France	Yes
RM	No	EURONEXT PARIS – DARK BOOK FACILITY	DPAR	France	Yes
RM	Yes	EURONEXT PARIS - MULTI-CURRENCY TRADING	XPMC	France	Yes
RM	Yes	XETRA	XETR	Germany	Yes
RM	Yes	XETRA - REGULIERTER MARKT	XETA	Germany	Yes
RM	Yes	XETRA - FREIVERKEHR	XETB	Germany	Yes
RM	Yes	XETRA - SCALE	XETS	Germany	Yes
MTF	No	XETRA MIDPOINT REGULATED MARKET	XEMA	Germany	Yes
MTF	No	XETRA MIDPOINT OPEN MARKET	XEMB	Germany	Yes
MTF	No	XETRA MIDPOINT SCALE	XEMI	Germany	Yes
RM	Yes	ATHENS EXCHANGE S.A. CASH MARKET	XATH	Greece	No
MTF	Yes	ATHENS EXCHANGE ALTERNATIVE MARKET	ENAX	Greece	No
RM	Yes	BUDAPEST STOCK EXCHANGE	XBUD	Hungary	No
RM	Yes	BUDAPEST - BETA MARKET	BETA	Hungary	No
RM	Yes	BUDAPEST - XTEND	XTND	Hungary	No
RM	Yes	EURONEXT – EURONEXT DUBLIN	XMSM	Ireland	Yes
MTF	Yes	EURONEXT GROWTH DUBLIN	XESM	Ireland	Yes
RM	No	EURONEXT DUBLIN – DARK BOOK FACILITY	DDUB	Ireland	Yes
RM	Yes	EURONEXT ACCESS DUBLIN	XACD	Ireland	Yes
RM	Yes	TEL AVIV STOCK EXCHANGE	XTAE	Israel	No
RM	Yes	EURONEXT MILAN	MTAA	Italy	Yes
RM	Yes	MILAN - ELECTRONIC ETF, ETC/ETN AND OPEN-END FUNDS MARKET	ETFP	Italy	Yes

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RM	Yes	EURONEXT MIV MILAN	MIVX	Italy	Yes
MTF	Yes	BORSA ITALIANA GLOBAL EQUITY MARKET	BGEM	Italy	No
MTF	Yes	EURONEXT GROWTH MILAN	EXGM	Italy	No
RM	No	BORSA ITALIANA - DARK BOOK FACILITY	DMIL	Italy	Yes
RM	Yes	KUWAIT STOCK EXCHANGE	XKUW	Kuwait	No
RM	Yes	EURONEXT - EURONEXT AMSTERDAM	XAMS	Netherlands	Yes
RM	No	EURONEXT AMSTERDAM – DARK BOOK FACILITY	DAMS	Netherlands	Yes
RM	Yes	EURONEXT AMSTERDAM - MULTI-CURRENCY TRADING	XAMC	Netherlands	Yes
RM	Yes	EURONEXT OSLO BORS	XOSL	Norway	Yes
RM	Yes	EURONEXT EXPAND OSLO	XOAS	Norway	Yes
RM	Yes	EURONEXT GROWTH OSLO	MERK	Norway	Yes
RM	No	EURONEXT OSLO – DARK BOOK FACILITY	DOSL	Norway	Yes
MTF	Yes	FIRST NORTH NOK - NORWAY	ONSE	Norway	Yes
MTF	No	FIRST NORTH NOK – NORWAY NORDIC @ MID	DOSE	Norway	Yes
MTF	Yes	NASDAQ STOCKHOLM AB – NORWAY ETF	ESTO	Norway	Yes
MTF	Yes	SPOTLIGHT STOCK MARKET NORWAY	SPNO	Norway	No
RM	Yes	WARSAW STOCK EXCHANGE	XWAR	Poland	Yes
MTF	Yes	WARSAW STOCK EXCHANGE/ EQUITIES/NEW CONNECT	XNCO	Poland	No
RM	Yes	EURONEXT - EURONEXT LISBON	XLIS	Portugal	Yes
MTF	Yes	EURONEXT GROWTH LISBON	ALXL	Portugal	Yes
MTF	Yes	EURONEXT ACCESS LISBON	ENXL	Portugal	Yes
RM	No	EURONEXT LISBON – DARK BOOK FACILITY	DLIS	Portugal	Yes
RM	Yes	QATAR EXCHANGE	DSMD	Qatar	No
RM	Yes	SPOT REGULATED MARKET - BVB	XBSE	Romania	No
RM	Yes	SAUDI STOCK EXCHANGE	XSAU	Saudi Arabia	Yes
RM	Yes	JOHANNESBURG STOCK EXCHANGE	XJSE	South Africa	No
RM	Yes	BOLSA DE MADRID	XMAD	Spain	Yes
RM	No	BOLSA DE MADRID - DARK MIDPOINT	DMAD	Spain	Yes
RM	Yes	BOLSA DE BARCELONA	XBAR	Spain	Yes
RM	Yes	BOLSA DE VALENCIA	XVAL	Spain	Yes
RM	Yes	BOLSA DE VALORES DE BILBAO	XBIL	Spain	Yes
RM	Yes	MERCADO ALTERNATIVO BURSATIL	MABX	Spain	Yes
RM	Yes	BME GROWTH MARKET	GROW	Spain	No
RM	Yes	NASDAQ STOCKHOLM	XSTO	Sweden	Yes
RM	No	NASDAQ STOCKHOLM AB - NORDIC@MID	DSTO	Sweden	Yes
MTF	Yes	FIRST NORTH SWEDEN	FNSE	Sweden	Yes
MTF	Yes	FIRST NORTH SWEDEN - SME GROWTH MARKET	SSME	Sweden	Yes
MTF	No	FIRST NORTH SWEDEN - NORDIC@MID	DNSE	Sweden	Yes
RM	Yes	NORDIC GROWTH MARKET	XNGM	Sweden	No
MTF	Yes	NORDIC SME	NSME	Sweden	No
MTF	Yes	NORDIC MTF	NMTF	Sweden	No
MTF	Yes	SPOTLIGHT STOCK MARKET	XSAT	Sweden	No
MTF	Yes	SPOTLIGHT STOCK MARKET ETP	SPSD	Sweden	No
RM	Yes	SIX SWISS EXCHANGE	XSWX	Switzerland	Yes
RM	Yes	SIX SWISS EXCHANGE – STRUCTURED PRODUCTS	XQMH	Switzerland	Yes
RM	No	SIX SWISS EXCHANGE - AT MIDPOINT	XSWM	Switzerland	Yes
RM	Yes	BORSA ISTANBUL	XIST	Turkey	No
RM	Yes	LONDON STOCK EXCHANGE	XLON	UK	Yes
MTF	Yes	LONDON STOCK EXCHANGE - AIM MTF	AIMX	UK	Yes

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MTF	Yes	LONDON STOCK EXCHANGE - MTF	XLOM	UK	Yes
RM	Yes	DUBAI FINANCIAL MARKET	XDFM	United Arab Emirates	No
RM	Yes	NASDAQ DUBAI	DIFX	United Arab Emirates	No
RM	Yes	ABU DHABI SECURITIES EXCHANGE	XADS	United Arab Emirates	No
MTF	Yes	AQUIS EXCHANGE EUROPE	AQEU	Multiple	Yes
MTF	No	AQUIS EXCHANGE EUROPE NON DISPLAY ORDER BOOK (NDOB)	AQED	Multiple	Yes
MTF	Yes	AQUIS EXCHANGE PLC	AQXE	Multiple	Yes
MTF	No	AQUIS EXCHANGE PLC AMP NON DISPLAY ORDER BOOK	AQXD	Multiple	Yes
MTF	No	BLOCKMATCH UK DARK	BLOX	Multiple	No
MTF	No	BLOCKMATCH EUROPE DARK	EBLX	Multiple	No
MTF	Yes	BOERSE MUENCHEN - GETTEX - FREIVERKEHR	MUND	Multiple	Yes
RM	Yes	BOERSE MUENCHEN - GETTEX - REGULIERTER MARKT	MUNC	Multiple	Yes
MTF	No	CBOE EUROPE - BXE DARK ORDER BOOK	BATD	Multiple	Yes
MTF	No	CBOE EUROPE - CXE DARK ORDER BOOK	CHID	Multiple	Yes
RM	Yes	CBOE EUROPE - CXE ORDER BOOK	CHIX	Multiple	Yes
MTF	No	CBOE EUROPE - DXE DARK ORDER BOOK (NL)	CEUD	Multiple	Yes
RM	No	CBOE EUROPE - DXE OFF-BOOK (NL)	CEUO	Multiple	Yes
RM	Yes	CBOE EUROPE - DXE ORDER BOOK (NL)	CEUX	Multiple	Yes
RM	No	CBOE EUROPE - REGULATED MARKET DARK BOOK	BARK	Multiple	Yes
RM	No	CBOE EUROPE - REGULATED MARKET DARK BOOK (NL)	BARU	Multiple	Yes
RM	Yes	CBOE EUROPE - REGULATED MARKET INTEGRATED	BART	Multiple	Yes
RM	Yes	CBOE EUROPE - REGULATED MARKET INTEGRATED BOOK (NL)	BEUT	Multiple	Yes
RM	Yes	CBOE EUROPE UK -BXE ORDER BOOK	BATE	Multiple	Yes
MTF	No	LIQUIDNET EU LIMITED EQUITY MTF	LEUE	Multiple	No
MTF	No	LIQUIDNET SYSTEMS	LIQU	Multiple	No
MTF	No	POSIT DARK	XPOS	Multiple	No
MTF	No	POSIT DARK UK	XPOL	Multiple	No
MTF	No	SIGMA X EUROPE NON-DISPLAYED BOOK	SGMU	Multiple	Yes
MTF	No	SIGMA X MTF NON-DISPLAYED BOOK	SGMX	Multiple	Yes
MTF	Yes	SPOTLIGHT STOCK MARKET EUROPE	SPEU	Multiple	No
MTF	No	TP ICAP EU - MTF - LIQUIDNET EU EQUITY	LNEQ	Multiple	No
MTF	Yes	TRADEGATE EXCHANGE - FREIVERKEHR	XGAT	Multiple	Yes
RM	Yes	TRADEGATE EXCHANGE - REGULIERTER MARKT	XGRM	Multiple	Yes
MTF	Yes	TURQUOISE	TRQX	Multiple	Yes
MTF	No	TURQUOISE DARK	TRQM	Multiple	Yes
MTF	Yes	TURQUOISE EUROPE	TQEX	Multiple	Yes
MTF	No	TURQUOISE EUROPE - DARK	TQEM	Multiple	Yes
SI	Yes	GOLDMAN SACHS INTERNATIONAL - SI	GSSI	Multiple	N/A
SI	Yes	GOLDMAN SACHS BANK EUROPE SE - SI	GSEI	Multiple	N/A
SI	Yes	CITADEL CONNECT EUROPE - EU - SYSTEMATIC INTERNALISER	EUCC	Multiple	N/A
SI	Yes	CITADEL CONNECT EUROPE - SI	CCEU	Multiple	N/A
SI	Yes	HUDSON RIVER TRADING - SI	HRSI	Multiple	N/A
SI	Yes	HUDSON RIVER TRADING LIMITED (HRTEU) - SI	HREU	Multiple	N/A
SI	Yes	JANE STREET FINANCIAL LTD - SI	JSSI	Multiple	N/A
SI	Yes	JUMP TRADING EUROPE - SI	JLEU	Multiple	N/A
SI	Yes	TOWER RESEARCH CAPITAL EUROPE - SI	TOWR	Multiple	N/A
SI	Yes	TOWER RESEARCH CAPITAL EUROPE LTD - SI	TRSI	Multiple	N/A

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SI	Yes	VIRTU FINANCIAL IRELAND LIMITED - SI	VFSI	Multiple	N/A
SI	Yes	XTX MARKETS - SI	XTXM	Multiple	N/A
SI	Yes	XTX MARKETS SAS - SI	XTXE	Multiple	N/A
PA	Yes	AQUIS EXCHANGE EUROPE - AUCTION ON DEMAND	AQEA	Multiple	Yes
PA	Yes	AQUIS EXCHANGE PLC - AUCTION ON DEMAND	AQXA	Multiple	Yes
PA	Yes	CBOE EUROPE - BXE PERIODIC	BATP	Multiple	Yes
PA	Yes	CBOE EUROPE - DXE PERIODIC (NL)	BEUP	Multiple	Yes
PA	Yes	FIRST NORTH DENMARK – AUCTION ON DEMAND	MNDK	Denmark	Yes
PA	Yes	FIRST NORTH FINLAND – AUCTION ON DEMAND	MNFI	Finland	Yes
PA	Yes	FIRST NORTH NOK – AUCTION ON DEMAND	MOSE	Sweden/Norway	Yes
PA	Yes	FIRST NORTH SWEDEN – AUCTION ON DEMAND	MNSE	Sweden	Yes
PA	Yes	NASDAQ COPENHAGEN A/S – AUCTION ON DEMAND	MCSE	Denmark	Yes
PA	Yes	NASDAQ HELSINKI LTD – AUCTION ON DEMAND	MHEL	Finland	Yes
PA	Yes	NASDAQ STOCKHOLM AB – AUCTION ON DEMAND	MSTO	Sweden	Yes
PA	Yes	ONECHRONOS MARKETS UK	OCXL	Multiple	Yes
PA	Yes	ONECHRONOS MARKETS EUROPE	OCXE	Multiple	Yes
PA	Yes	POSIT AUCTION	XPAC	Multiple	No
PA	Yes	POSIT AUCTION UK	XPAL	Multiple	No
PA	Yes	SIGMA X EUROPE AUCTION BOOK	SGMV	Multiple	Yes
PA	Yes	SIGMA X MTF - AUCTION BOOK	SGMY	Multiple	Yes
PA	Yes	TURQUOISE EUROPE - LIT AUCTIONS	TQEA	Multiple	Yes
PA	Yes	TURQUOISE LIT AUCTIONS	TRQA	Multiple	Yes
COND	No	CBOE EUROPE - LIS SERVICE	LISX	Multiple	Yes
COND	No	CBOE EUROPE - LIS SERVICE (NL)	LISZ	Multiple	Yes
COND	No	LIQUIDNET SYSTEMS	LIQU	Multiple	No
COND	No	POSIT DARK	XPOS	Multiple	No
COND	No	POSIT DARK UK	XPOL	Multiple	No
COND	No	SIGMA X EUROPE NON-DISPLAYED BOOK	SGMU	Multiple	Yes
COND	No	SIGMA X MTF NON-DISPLAYED BOOK	SGMX	Multiple	Yes
COND	No	SIX SWISS EXCHANGE - AT MIDPOINT	XSWM	Switzerland	Yes
COND	No	TP ICAP EU - MTF - LIQUIDNET EU EQUITY	LNEQ	Multiple	No
COND	No	TURQUOISE EUROPE - DARK	TQEM	Multiple	Yes
COND	No	TURQUOISE PLATO BDS	TRQM	Multiple	Yes

Key

RM – Regulated Market
MTF – Multi-Lateral Trading Facility
SI – Systematic Internaliser
COND – Conditional Order Venue
PA – Periodic Lit Auction