

ASSET CLASS	VENUE NAME	MIC	OPERATING VENUE NAME	OPERATING MIC	COUNTRY
DERIVATIVES	ASX - TRADE24	XSFE	ASX - ALL MARKETS	XASX	AUSTRALIA
DERIVATIVES	BOX OPTIONS EXCHANGE	XBOX	BOX OPTIONS EXCHANGE	XBOX	UNITED STATES
DERIVATIVES	CBOE BZX OPTIONS EXCHANGE	BATO	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
DERIVATIVES	CBOE C2 OPTIONS EXCHANGE	C2OX	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
DERIVATIVES	CBOE EDGX OPTIONS EXCHANGE	EDGO	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
DERIVATIVES	CBOE FUTURES EXCHANGE	XCBF	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
DERIVATIVES	CBOE GLOBAL MARKETS INC.	XCBO	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
DERIVATIVES	CHICAGO BOARD OF TRADE	XCBT	CHICAGO BOARD OF TRADE	XCBT	UNITED STATES
DERIVATIVES	CHICAGO MERCANTILE EXCHANGE	XCME	CHICAGO MERCANTILE EXCHANGE	XCME	UNITED STATES
DERIVATIVES	COMMODITIES EXCHANGE CENTER	XCEC	NEW YORK MERCANTILE EXCHANGE	XNYM	UNITED STATES
DERIVATIVES	EUREX DEUTSCHLAND	XEUR	EUREX DEUTSCHLAND	XEUR	GERMANY
DERIVATIVES	EURONEXT - EURONEXT BRUSSELS - DERIVATIVES	XBRD	EURONEXT - EURONEXT BRUSSELS	XBRU	BELGIUM
DERIVATIVES	EURONEXT EQF, EQUITIES AND INDICES DERIVATIVES	XEUE	EURONEXT - EURONEXT AMSTERDAM	XAMS	NETHERLANDS
DERIVATIVES	EURONEXT PARIS MATIF	XMAT	EURONEXT - EURONEXT PARIS	XPAR	FRANCE
DERIVATIVES	EURONEXT PARIS MONEP	XMON	EURONEXT - EURONEXT PARIS	XPAR	FRANCE
DERIVATIVES	HONG KONG FUTURES EXCHANGE LTD.	XHKF	HONG KONG FUTURES EXCHANGE LTD.	XHKF	HONG KONG
DERIVATIVES	ICE FUTURES EUROPE	IFEU	ICE FUTURES EUROPE	IFEU	UNITED KINGDOM
DERIVATIVES	ICE FUTURES EUROPE - AGRICULTURAL PRODUCTS DIVISION	IFLX	ICE FUTURES EUROPE	IFEU	UNITED KINGDOM
DERIVATIVES	ICE FUTURES EUROPE - EQUITY PRODUCTS DIVISION	IFLO	ICE FUTURES EUROPE	IFEU	UNITED KINGDOM
DERIVATIVES	ICE FUTURES EUROPE - FINANCIAL PRODUCTS DIVISION	IFLL	ICE FUTURES EUROPE	IFEU	UNITED KINGDOM
DERIVATIVES	ICE FUTURES U.S.	IFUS	ICE FUTURES U.S.	IFUS	UNITED STATES
DERIVATIVES	INTERNATIONAL SECURITIES EXCHANGE, LLC	XISX	INTERNATIONAL SECURITIES EXCHANGE, LLC	XISX	UNITED STATES
DERIVATIVES	ISE GEMINI EXCHANGE	GMNI	INTERNATIONAL SECURITIES EXCHANGE, LLC	XISX	UNITED STATES
DERIVATIVES	ISE MERCURY, LLC	MCRY	INTERNATIONAL SECURITIES EXCHANGE, LLC	XISX	UNITED STATES
DERIVATIVES	ITALIAN DERIVATIVES MARKET	XDMI	BORSA ITALIANA S.P.A.	XMIL	ITALY
DERIVATIVES	JSE EQUITY DERIVATIVES MARKET	XSAF	JOHANNESBURG STOCK EXCHANGE	XJSE	SOUTH AFRICA
DERIVATIVES	MEFF FINANCIAL DERIVATIVES	XMRV	BME - BOLSAS Y MERCADOS ESPANOLAS	BMEX	SPAIN
DERIVATIVES	MIAMI INTERNATIONAL SECURITIES EXCHANGE	XMIO	MIAMI INTERNATIONAL HOLDINGS, INC.	MIHI	UNITED STATES
DERIVATIVES	MIAX EMERALD, LLC	EMLD	MIAMI INTERNATIONAL HOLDINGS, INC.	MIHI	UNITED STATES
DERIVATIVES	MIAX PEARL, LLC	MPRL	MIAMI INTERNATIONAL HOLDINGS, INC.	MIHI	UNITED STATES
DERIVATIVES	MINNEAPOLIS GRAIN EXCHANGE	XMGE	MINNEAPOLIS GRAIN EXCHANGE	XMGE	UNITED STATES
DERIVATIVES	NASDAQ OMX BX OPTIONS	XBXO	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
DERIVATIVES	NASDAQ OPTIONS MARKET	XNDQ	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
DERIVATIVES	NASDAQ STOCKHOLM AB	XSTO	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
DERIVATIVES	NEW YORK MERCANTILE EXCHANGE	XNYM	NEW YORK MERCANTILE EXCHANGE	XNYM	UNITED STATES
DERIVATIVES	NYSE AMEX OPTIONS	AMXO	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
DERIVATIVES	NYSE ARCA OPTIONS	ARCO	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
DERIVATIVES	OPTIONS PRICE REPORTING AUTHORITY	OPRA	OPTIONS PRICE REPORTING AUTHORITY	OPRA	UNITED STATES
DERIVATIVES	OSAKA EXCHANGE	XOSE	JAPAN EXCHANGE GROUP	XJPX	JAPAN
DERIVATIVES	PHILADELPHIA OPTIONS EXCHANGE	XPHO	NASDAQ - ALL MARKETS	XNAS	UNITED STATES

ASSET CLASS	VENUE NAME	MIC	OPERATING VENUE NAME	OPERATING MIC	COUNTRY
DERIVATIVES	SINGAPORE EXCHANGE DERIVATIVES CLEARING LIMITED	XSIM	SINGAPORE EXCHANGE	XSES	SINGAPORE
DERIVATIVES	THE MONTREAL EXCHANGE / BOURSE DE MONTREAL	XMOD	THE MONTREAL EXCHANGE / BOURSE DE MONTREAL	XMOD	CANADA
DERIVATIVES	WARSAW STOCK EXCHANGE/FINANCIAL DERIVATIVES	WDER	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	XWAR	POLAND
SECURITIES	A2X	A2XX	A2X	A2XX	SOUTH AFRICA
SECURITIES	ALPHA EXCHANGE	XATS	ALPHA EXCHANGE	XATS	CANADA
SECURITIES	AQUIS EXCHANGE EUROPE	AQEU	AQUIS EXCHANGE EUROPE	AQEU	FRANCE
SECURITIES	AQUIS EXCHANGE EUROPE NON DISPLAY ORDER BOOK (NDOB)	AQED	AQUIS EXCHANGE EUROPE	AQEU	FRANCE
SECURITIES	AQUIS EXCHANGE PLC	AQXE	AQUIS EXCHANGE PLC	AQXE	UNITED KINGDOM
SECURITIES	AQUIS EXCHANGE PLC - AMP - DARK ORDER BOOK	XUBS	AQUIS EXCHANGE PLC - AMP - DARK ORDER BOOK	XUBS	UNITED KINGDOM
SECURITIES	AQUIS EXCHANGE PLC AMP NON DISPLAY ORDER BOOK	AQXD	AQUIS EXCHANGE PLC	AQXE	UNITED KINGDOM
SECURITIES	ARCA DARK	ARCD	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	ASX - CENTRE POINT	ASXC	ASX - ALL MARKETS	XASX	AUSTRALIA
SECURITIES	ASX TRADEMATCH	ASXT	ASX - ALL MARKETS	XASX	AUSTRALIA
SECURITIES	ATHENS EXCHANGE ALTERNATIVE MARKET	ENAX	ATHENS STOCK EXCHANGE	ASEX	GREECE
SECURITIES	ATHENS EXCHANGE S.A. CASH MARKET	XATH	ATHENS STOCK EXCHANGE	ASEX	GREECE
SECURITIES	BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	BAML	BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	BAML	UNITED STATES
SECURITIES	BARCLAYS ATS	BARX	BARCLAYS ATS	BARX	UNITED STATES
SECURITIES	BIDS TRADING L.P.	BIDS	BIDS TRADING L.P.	BIDS	UNITED STATES
SECURITIES	BLOOMBERG TRADING FACILITY B.V.	BTFE	BLOOMBERG TRADING FACILITY B.V.	BTFE	NETHERLANDS
SECURITIES	BLOOMBERG TRADING FACILITY LIMITED	BMTF	BLOOMBERG TRADING FACILITY LIMITED	BMTF	UNITED KINGDOM
SECURITIES	BME GROWTH MARKET	GROW	BME - BOLSAS Y MERCADOS ESPANOLAS	BMEX	SPAIN
SECURITIES	BNPP CORTEX ATS	BNPC	BNPP CORTEX ATS	BNPC	UNITED STATES
SECURITIES	BOERSE BERLIN	XBER	BOERSE BERLIN	XBER	GERMANY
SECURITIES	BOERSE BERLIN EQUIDUCT TRADING - BERLIN SECOND REGULATED MARKET	EQTB	BOERSE BERLIN	XBER	GERMANY
SECURITIES	BOERSE BERLIN EQUIDUCT TRADING - FREIVERKEHR	EQTC	BOERSE BERLIN	XBER	GERMANY
SECURITIES	BOERSE DUESSELDORF	XDUS	BOERSE DUESSELDORF	XDUS	GERMANY
SECURITIES	BOERSE FRANKFURT - FREIVERKEHR	FRAB	DEUTSCHE BOERSE AG	XFRA	GERMANY
SECURITIES	BOERSE FRANKFURT - REGULIERTER MARKT	FRAA	DEUTSCHE BOERSE AG	XFRA	GERMANY
SECURITIES	BOERSE MUENCHEN	XMUN	BOERSE MUENCHEN	XMUN	GERMANY
SECURITIES	BOERSE STUTT GART	XSTU	BOERSE STUTT GART	XSTU	GERMANY
SECURITIES	BOLSA DE MADRID	XMAD	BME - BOLSAS Y MERCADOS ESPANOLAS	BMEX	SPAIN
SECURITIES	BORSA ISTANBUL	XIST	BORSA ISTANBUL	XIST	TURKEY
SECURITIES	BORSA ITALIANA - TRADING AFTER HOURS	MTAH	BORSA ITALIANA S.P.A.	XMIL	ITALY
SECURITIES	BUDAPEST STOCK EXCHANGE	XBUD	BUDAPEST STOCK EXCHANGE	XBUD	HUNGARY
SECURITIES	CANADIAN SECURITIES EXCHANGE	XCNQ	CANADIAN SECURITIES EXCHANGE	XCNQ	CANADA

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SECURITIES	CANADIAN SECURITIES EXCHANGE - CSE2	CSE2	CANADIAN SECURITIES EXCHANGE	XCNQ	CANADA
SECURITIES	CBOE AUSTRALIA - LIMIT VENUE	CXAC	CBOE AUSTRALIA	CHIA	AUSTRALIA
SECURITIES	CBOE AUSTRALIA MID-POINT VENUE	CXAP	CBOE AUSTRALIA	CHIA	AUSTRALIA
SECURITIES	CBOE BYX U.S. EQUITIES EXCHANGE	BATY	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE BYX U.S. EQUITIES EXCHANGE DARK	BYXD	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE BZX U.S. EQUITIES EXCHANGE	BATS	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE BZX U.S. EQUITIES EXCHANGE DARK	BZXD	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE EDGA U.S. EQUITIES EXCHANGE	EDGA	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE EDGA U.S. EQUITIES EXCHANGE DARK	EDGD	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE EDGX U.S. EQUITIES EXCHANGE	EDGX	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE EDGX U.S. EQUITIES EXCHANGE DARK	EDDP	CBOE GLOBAL MARKETS INC.	XCBO	UNITED STATES
SECURITIES	CBOE EUROPE - BXE DARK ORDER BOOK	BATD	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - BXE OFF-BOOK	BATF	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - BXE ORDER BOOKS	BATE	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - BXE PERIODIC	BATP	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - CXE DARK ORDER BOOK	CHID	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - CXE ORDER BOOKS	CHIX	CBOE EUROPE EQUITIES	BCXE	UNITED KINGDOM
SECURITIES	CBOE EUROPE - DXE DARK ORDER BOOK (NL)	CEUD	CBOE EUROPE EQUITIES - EUROPEAN EQUITIES (NL)	CCXE	NETHERLANDS
SECURITIES	CBOE EUROPE - DXE OFF-BOOK (NL)	CEUO	CBOE EUROPE EQUITIES - EUROPEAN EQUITIES (NL)	CCXE	NETHERLANDS
SECURITIES	CBOE EUROPE - DXE ORDER BOOKS (NL)	CEUX	CBOE EUROPE EQUITIES - EUROPEAN EQUITIES (NL)	CCXE	NETHERLANDS
SECURITIES	CBOE EUROPE - DXE PERIODIC (NL)	BEUP	CBOE EUROPE EQUITIES - EUROPEAN EQUITIES (NL)	CCXE	NETHERLANDS
SECURITIES	CBOE EUROPE - LIS SERVICE (NL)	LISZ	CBOE EUROPE EQUITIES - EUROPEAN EQUITIES (NL)	CCXE	NETHERLANDS
SECURITIES	CBOE EUROPE - REGULATED MARKET INTEGRATED BOOK	BART	CBOE EUROPE REGULATED MARKETS	BCRM	UNITED KINGDOM
SECURITIES	CBOE JAPAN - ALPHA	CHIJ	CBOE JAPAN - ALPHA	CHIJ	JAPAN
SECURITIES	CHI-X CANADA ATS	CHIC	CHI-X CANADA ATS	CHIC	CANADA
SECURITIES	CITADEL CONNECT EUROPE	CCEU	CITADEL CONNECT EUROPE	CCEU	UNITED KINGDOM
SECURITIES	CITADEL CONNECT EUROPE - EU	EUCC	CITADEL CONNECT EUROPE - EU	EUCC	IRELAND
SECURITIES	CITADEL SECURITIES	CDED	CITADEL SECURITIES	CDED	UNITED STATES
SECURITIES	CITI MATCH GB CONTRA LIQUIDITY	CGMU	CITIGROUP GLOBAL MARKETS LIMITED	CGML	UNITED KINGDOM
SECURITIES	CITIGROUP GLOBAL MARKETS EUROPE AG - EMEA TRADING	CGET	CITIGROUP GLOBAL MARKETS EUROPE AG	CGMD	GERMANY
SECURITIES	CREDIT SUISSE AES CROSSFINDER	CAES	CREDIT SUISSE (US)	CRED	UNITED STATES
SECURITIES	CX2	XCX2	CHI-X CANADA ATS	CHIC	CANADA
SECURITIES	DEUTSCHE BOERSE AG	XFRA	DEUTSCHE BOERSE AG	XFRA	GERMANY
SECURITIES	ELECTRONIC ETF, ETC/ETN AND OPEN-END FUNDS MARKET	ETFP	BORSA ITALIANA S.P.A.	XMIL	ITALY
SECURITIES	EURONEXT - EURONEXT AMSTERDAM	XAMS	EURONEXT - EURONEXT AMSTERDAM	XAMS	NETHERLANDS

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SECURITIES	EURONEXT - EURONEXT BRUSSELS	XBRU	EURONEXT - EURONEXT BRUSSELS	XBRU	BELGIUM
SECURITIES	EURONEXT - EURONEXT LISBON	XLIS	EURONEXT - EURONEXT LISBON	XLIS	PORTUGAL
SECURITIES	EURONEXT - EURONEXT PARIS	XPAR	EURONEXT - EURONEXT PARIS	XPAR	FRANCE
SECURITIES	EURONEXT - VENTES PUBLIQUES BRUSSELS	VPXB	EURONEXT - EURONEXT BRUSSELS	XBRU	BELGIUM
SECURITIES	EURONEXT ACCESS PARIS	XMLI	EURONEXT - EURONEXT PARIS	XPAR	FRANCE
SECURITIES	EURONEXT DUBLIN	XMSM	IRISH STOCK EXCHANGE - ALL MARKET	XDUB	IRELAND
SECURITIES	EURONEXT EXPAND OSLO	XOAS	OSLO BORS	XOSL	NORWAY
SECURITIES	EURONEXT GROWTH - OSLO	MERK	OSLO BORS	XOSL	NORWAY
SECURITIES	EURONEXT GROWTH DUBLIN	XESM	IRISH STOCK EXCHANGE - ALL MARKET	XDUB	IRELAND
SECURITIES	EURONEXT GROWTH MILAN	EXGM	BORSA ITALIANA S.P.A.	XMIL	ITALY
SECURITIES	EURONEXT GROWTH PARIS	ALXP	EURONEXT - EURONEXT PARIS	XPAR	FRANCE
SECURITIES	EURONEXT MILAN	MTAA	BORSA ITALIANA S.P.A.	XMIL	ITALY
SECURITIES	FIRST NORTH DENMARK -SME GROWTH MARKET	DSME	NASDAQ COPENHAGEN A/S	XCSE	DENMARK
SECURITIES	FIRST NORTH FINLAND - SME GROWTH MARKET	FSME	NASDAQ HELSINKI LTD	XHEL	FINLAND
SECURITIES	FIRST NORTH SWEDEN	FNSE	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
SECURITIES	FIRST NORTH SWEDEN - NORWAY	ONSE	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
SECURITIES	FIRST NORTH SWEDEN - SME GROWTH MARKET	SSME	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
SECURITIES	G1 EXECUTION SERVICES	G1XX	G1 EXECUTION SERVICES	G1XX	UNITED STATES
SECURITIES	HANSEATISCHE WERTPAPIERBOERSE HAMBURG	XHAM	HANSEATISCHE WERTPAPIERBOERSE HAMBURG	XHAM	GERMANY
SECURITIES	HONG KONG EXCHANGES AND CLEARING LTD	XHKG	HONG KONG EXCHANGES AND CLEARING LTD	XHKG	HONG KONG
SECURITIES	HRTEU LIMITED	HREU	HRTEU LIMITED	HREU	IRELAND
SECURITIES	HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER	HRSI	HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER	HRSI	UNITED KINGDOM
SECURITIES	HUDSON RIVER TRADING (HRT)	HRTF	HUDSON RIVER TRADING (HRT)	HRTF	UNITED STATES
SECURITIES	INDONESIA STOCK EXCHANGE	XIDX	INDONESIA STOCK EXCHANGE	XIDX	INDONESIA
SECURITIES	INSTINET CBX (US)	ICBX	INSTINET	XINS	UNITED STATES
SECURITIES	INTELLIGENTCROSS	INCR	INTELLIGENTCROSS	INCR	UNITED STATES
SECURITIES	INTELLIGENTCROSS ASPEN INTELLIGENT BID/OFFER	ASPN	INTELLIGENTCROSS	INCR	UNITED STATES
SECURITIES	INVESTORS EXCHANGE	IEXG	INVESTORS EXCHANGE	IEXG	UNITED STATES
SECURITIES	INVESTORS EXCHANGE - DARK	IEXD	INVESTORS EXCHANGE	IEXG	UNITED STATES
SECURITIES	IRISH STOCK EXCHANGE - ALL MARKET	XDUB	IRISH STOCK EXCHANGE - ALL MARKET	XDUB	IRELAND
SECURITIES	JANE STREET FINANCIAL LTD	JSSI	JANE STREET FINANCIAL LTD	JSSI	UNITED KINGDOM
SECURITIES	JANE STREET JX	JSJX	JANE STREET JX	JSJX	UNITED STATES
SECURITIES	JANE STREET NETHERLANDS B.V.	JNSI	JANE STREET NETHERLANDS B.V.	JNSI	NETHERLANDS
SECURITIES	JAPANNEXT - J - MARKET	SBIJ	JAPANNEXT - J - MARKET	SBIJ	JAPAN
SECURITIES	JPMX	JPMX	JPMX	JPMX	UNITED STATES
SECURITIES	JUMP LIQUIDITY EU EQUITY PLATFORM	JLEU	JUMP LIQUIDITY EU EQUITY PLATFORM	JLEU	NETHERLANDS
SECURITIES	KNIGHT EQUITY MARKETS LP	KNEM	KNIGHT	KNIG	UNITED STATES
SECURITIES	KNIGHT LINK	KNLI	KNIGHT	KNIG	UNITED STATES
SECURITIES	LEVEL ATS	LEVL	LEVEL ATS	LEVL	UNITED STATES
SECURITIES	LIQUIDNET EU LIMITED EQUITY MTF	LEUE	LIQUIDNET EU LIMITED EQUITY MTF	LEUE	IRELAND
SECURITIES	LONDON STOCK EXCHANGE	XLON	LONDON STOCK EXCHANGE	XLON	UNITED KINGDOM

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SECURITIES	LONDON STOCK EXCHANGE - AIM MTF	AIMX	LONDON STOCK EXCHANGE	XLON	UNITED KINGDOM
SECURITIES	LONDON STOCK EXCHANGE - MTF	XLOM	LONDON STOCK EXCHANGE	XLON	UNITED KINGDOM
SECURITIES	LONG-TERM STOCK EXCHANGE, INC.	LTSE	LONG-TERM STOCK EXCHANGE, INC.	LTSE	UNITED STATES
SECURITIES	LUXEMBOURG STOCK EXCHANGE	XLUX	LUXEMBOURG STOCK EXCHANGE	XLUX	LUXEMBOURG
SECURITIES	LYNX ATS	LYNX	OMEGA ATS	OMGA	CANADA
SECURITIES	MATCH NOW	MATN	MATCH NOW	MATN	CANADA
SECURITIES	MEMX LLC DARK	MEMD	MEMX LLC EQUITIES	MEMX	UNITED STATES
SECURITIES	MEMX LLC EQUITIES	MEMX	MEMX LLC EQUITIES	MEMX	UNITED STATES
SECURITIES	MIAX PEARL EQUITIES	EPRL	MIAMI INTERNATIONAL HOLDINGS, INC.	MIHI	UNITED STATES
SECURITIES	MIAX PEARL EQUITIES EXCHANGE DARK	EPRD	MIAMI INTERNATIONAL HOLDINGS, INC.	MIHI	UNITED STATES
SECURITIES	MORGAN STANLEY AND CO. LLC	MSCO	MORGAN STANLEY AND CO. LLC	MSCO	UNITED STATES
SECURITIES	MORGAN STANLEY EUROPE S.E. - SYSTEMATIC INTERNALISER	MESI	MORGAN STANLEY EUROPE S.E.	MSEU	GERMANY
SECURITIES	MS POOL	MSPL	MORGAN STANLEY AND CO. LLC	MSCO	UNITED STATES
SECURITIES	MS TRAJECTORY CROSS	MSTX	MORGAN STANLEY AND CO. LLC	MSCO	UNITED STATES
SECURITIES	NASDAQ - ALL MARKETS	XNAS	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NASDAQ COPENHAGEN A/S	XCSE	NASDAQ COPENHAGEN A/S	XCSE	DENMARK
SECURITIES	NASDAQ CXD	XCXD	NASDAQ CXD	XCXD	CANADA
SECURITIES	NASDAQ HELSINKI LTD	XHEL	NASDAQ HELSINKI LTD	XHEL	FINLAND
SECURITIES	NASDAQ MIDPOINT-ELO (M-ELO)	MELO	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NASDAQ OMX BX	XBOS	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NASDAQ OMX BX DARK	BOSD	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NASDAQ OMX PSX	XPSX	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NASDAQ STOCKHOLM AB	XSTO	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
SECURITIES	NASDAQ STOCKHOLM AB - AUCTION ON DEMAND	MSTO	NASDAQ STOCKHOLM AB	XSTO	SWEDEN
SECURITIES	NASDAQ/NMS (GLOBAL MARKET)	XNMS	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NEO EXCHANGE - NEO-D (DARK)	NEOD	NEO EXCHANGE - NEO-L (MARKET BY ORDER)	NEOE	CANADA
SECURITIES	NEO EXCHANGE - NEO-L (MARKET BY ORDER)	NEOE	NEO EXCHANGE - NEO-L (MARKET BY ORDER)	NEOE	CANADA
SECURITIES	NEO EXCHANGE - NEO-N (MARKET BY PRICE)	NEON	NEO EXCHANGE - NEO-L (MARKET BY ORDER)	NEOE	CANADA
SECURITIES	NEW YORK STOCK EXCHANGE, INC.	XNYS	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NIEDERSAECHSISCHE BOERSE ZU HANNOVER	XHAN	NIEDERSAECHSISCHE BOERSE ZU HANNOVER	XHAN	GERMANY
SECURITIES	NSDQ DARK	NASD	NASDAQ - ALL MARKETS	XNAS	UNITED STATES
SECURITIES	NYSE ARCA	ARCX	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NYSE CHICAGO, INC.	XCHI	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NYSE DARK	NYSD	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NYSE MKT LLC	XASE	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NYSE NATIONAL, INC.	XCIS	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	NYSE NATIONAL, INC. - DARK	CISD	NEW YORK STOCK EXCHANGE, INC.	XNYS	UNITED STATES
SECURITIES	OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS	XOFF	OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS	XOFF	#N/A

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SECURITIES	OMEGA ATS	OMGA	OMEGA ATS	OMGA	CANADA
SECURITIES	OSLO BORS	XOSL	OSLO BORS	XOSL	NORWAY
SECURITIES	OTC PINK MARKETPLACE	PINX	OTC LINK ATS - OTC MARKETS	OTCM	UNITED STATES
SECURITIES	OTCBB	XOTC	OTCBB	XOTC	UNITED STATES
SECURITIES	POSIT	ITGI	POSIT	ITGI	UNITED STATES
SECURITIES	POSIT AUCTION	XPAC	POSIT MTF	ITGL	IRELAND
SECURITIES	POSIT DARK	XPOS	POSIT MTF	ITGL	IRELAND
SECURITIES	POSIT DARK UK	XPOL	POSIT UK	VIUK	UNITED KINGDOM
SECURITIES	PRAGUE STOCK EXCHANGE	XPRA	PRAGUE STOCK EXCHANGE	XPRA	CZECH REPUBLIC
SECURITIES	SIGMA X EUROPE AUCTION BOOK	SGMV	SIGMA X EUROPE NON-DISPLAYED BOOK	SGMU	FRANCE
SECURITIES	SIGMA X EUROPE NON-DISPLAYED BOOK	SGMU	SIGMA X EUROPE NON-DISPLAYED BOOK	SGMU	FRANCE
SECURITIES	SIGMA X MTF	SGMX	SIGMA X MTF	SGMX	UNITED KINGDOM
SECURITIES	SIGMA X MTF - AUCTION BOOK	SGMY	SIGMA X MTF	SGMX	UNITED KINGDOM
SECURITIES	SIGMA X2	SGMT	GOLDMAN SACHS AND CO.	GSCO	UNITED STATES
SECURITIES	SINGAPORE EXCHANGE	XSES	SINGAPORE EXCHANGE	XSES	SINGAPORE
SECURITIES	SIX SWISS EXCHANGE	XSWX	SIX SWISS EXCHANGE	XSWX	SWITZERLAND
SECURITIES	SIX SWISS EXCHANGE - ETF QOD	XQOD	SIX SWISS EXCHANGE	XSWX	SWITZERLAND
SECURITIES	SIX SWISS EXCHANGE - SIX SWISS EXCHANGE AT MIDPOINT	XSWM	SIX SWISS EXCHANGE	XSWX	SWITZERLAND
SECURITIES	SPOTLIGHT STOCK MARKET AB	XSAT	SPOTLIGHT STOCK MARKET AB	XSAT	SWEDEN
SECURITIES	STOCK EXCHANGE OF THAILAND	XBKK	STOCK EXCHANGE OF THAILAND	XBKK	THAILAND
SECURITIES	TEL AVIV STOCK EXCHANGE	XTAE	TEL AVIV STOCK EXCHANGE	XTAE	ISRAEL
SECURITIES	TOKYO STOCK EXCHANGE	XTKS	JAPAN EXCHANGE GROUP	XJPX	JAPAN
SECURITIES	TOKYO STOCK EXCHANGE - TOSTNET-1	XTK1	JAPAN EXCHANGE GROUP	XJPX	JAPAN
SECURITIES	TORONTO STOCK EXCHANGE	XTSE	TORONTO STOCK EXCHANGE	XTSE	CANADA
SECURITIES	TORONTO STOCK EXCHANGE - DRK	XDRK	TORONTO STOCK EXCHANGE	XTSE	CANADA
SECURITIES	TOWER RESEARCH CAPITAL EUROPE	TOWR	TOWER RESEARCH CAPITAL EUROPE	TOWR	NETHERLANDS
SECURITIES	TOWER RESEARCH CAPITAL TRCX	TRCX	TOWER RESEARCH CAPITAL TRCX	TRCX	UNITED STATES
SECURITIES	TSX VENTURE EXCHANGE	XTSX	TSX VENTURE EXCHANGE	XTSX	CANADA
SECURITIES	TSX VENTURE EXCHANGE - DRK	VDRK	TSX VENTURE EXCHANGE	XTSX	CANADA
SECURITIES	TURQUOISE	TRQX	TURQUOISE	TRQX	UNITED KINGDOM
SECURITIES	TURQUOISE EUROPE	TQEX	TURQUOISE EUROPE	TQEX	NETHERLANDS
SECURITIES	TURQUOISE EUROPE - DARK	TQEM	TURQUOISE EUROPE	TQEX	NETHERLANDS
SECURITIES	TURQUOISE EUROPE - LIT AUCTIONS	TQEA	TURQUOISE EUROPE	TQEX	NETHERLANDS
SECURITIES	TURQUOISE LIT AUCTIONS	TRQA	TURQUOISE	TRQX	UNITED KINGDOM
SECURITIES	TURQUOISE PLATO	TRQM	TURQUOISE	TRQX	UNITED KINGDOM
SECURITIES	UBS ATS	UBSA	UBS ATS	UBSA	UNITED STATES
SECURITIES	VIRTU FINANCIAL IRELAND LIMITED - SYSTEMATIC INTERNALISER	VFSI	VIRTU FINANCIAL IRELAND LIMITED	VFIL	IRELAND
SECURITIES	VIRTU MATCHIT - CONDITIONAL ROOM	VCRS	VIRTU AMERICAS LLC	VUSA	UNITED STATES
SECURITIES	VIRTU MATCHIT - MAIN CROSSING SESSION	VFMI	VIRTU AMERICAS LLC	VUSA	UNITED STATES
SECURITIES	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	XWAR	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	XWAR	POLAND

ASSET CLASS	VENUE NAME	MIC	OPERATING VENUE NAME	OPERATING MIC	COUNTRY
SECURITIES	WIENER BOERSE AG AMTLICHER HANDEL (OFFICIAL MARKET)	WBAH	WIENER BOERSE AG	XWBO	AUSTRIA
SECURITIES	WIENER BOERSE AG VIENNA MTF (VIENNA MTF)	WBDM	WIENER BOERSE AG	XWBO	AUSTRIA
SECURITIES	WINTERFLOOD SECURITIES LIMITED - MANUAL TRADING	WINX	WINTERFLOOD SECURITIES LIMITED - ELECTRONIC PLATFORM	WINS	UNITED KINGDOM
SECURITIES	XETRA	XETR	XETRA	XETR	GERMANY
SECURITIES	XETRA - FREIVERKEHR	XETB	XETRA	XETR	GERMANY
SECURITIES	XETRA - REGULIERTER MARKT	XETA	XETRA	XETR	GERMANY
SECURITIES	XETRA - SCALE	XETS	XETRA	XETR	GERMANY
SECURITIES	XTX MARKETS	XTXM	XTX MARKETS	XTXM	UNITED KINGDOM
SECURITIES	XTX MARKETS SAS	XTXE	XTX MARKETS SAS	XTXE	FRANCE