

MARKET CONNECTIVITY

EMEA - CASH MARKETS Regulated Markets

Regulated Markets			
Abu Dhabi Securities Exchange - ADX	FIX, TSMR		
Euronext Amsterdam Stock Exchange	Optiq OEG, MDG		
Athens Stock Exchange	OASIS IDS - ODL, FIX		
Borsa Istanbul	Genium INET ITCH, OUCH, FIX		
Borsa Italiana MTA	MillenniumIT, Optiq OEG & MDG		
Borsa Italiana ETFPlus	MillenniumIT, Optiq OEG & MDG		
BX Swiss - Bern eXchange	Elasticia, FIX, FAST		
Euronext Brussels Stock Exchange	Optiq OEG & MDG		
Copenhagen Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Dubai Financial Market - DFM	FIX, TSMR		
Helsinki Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Iceland Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Euronext Dublin Stock Exchange - ISE	Optiq OEG, MDG		
Euronext Lisbon Stock Exchange	Optiq OEG, MDG		
London Stock Exchange	MillenniumIT		
Moscow Exchange MICEX-RTS	MFIX, FIX/FAST		
NASDAQ Dubai Exchange	FIX, TSMR		
Euronext Oslo Stock Exchange	Optiq OEG, MDG		
Euronext Paris Stock Exchange	Optiq OEG, MDG		
Nordic Growth Market	Elasticia, FIX, FAST		
Riga Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Frankfurt Certificate Stock Exchange (ex-Scoach)	Τ7		
Saudi Stock Exchange - Tadawul	GBS FIX		
SIX Structured Products Exchange (ex-Scoach Swiss)	IMI, OTI, QTI, RDI, STI		
SIX Swiss Exchange - SWX	IMI, OTI, QTI, RDI, STI		
Stockholm Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Tadawul - Saudi Exchange	Genium INET FIX, TIP		
Tallinn Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Vilnius Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX		
Warsaw Stock Exchange	UTP		
Xetra (Bonds, Warrants, Energy, Equities)	Τ7		
Multilateral	Trading Facilities		
Cboe Europe Equities	FIX, PITCH, Multicast PITCH		
Equiduct	FIX, ITCHMD		
NYSE Arca Europe	UTP MD, UTP Direct		
LSE Turquoise	MillenniumIT		
EMEA - DERIV	ATIVES MARKETS		
Athens Stock Exchange	OASIS IDS - ODL		
Borsa Istanbul	Genium INET ITCH, OUCH, FIX		
Borsa Italiana Italian Derivative Market - IDEM	SAIL, HSVF		
Borsa Italiana SEDEX	MillenniumIT		
CATS-OS	FIX		
CATS-LS	FIX		
Eurex	T7 (RDI, ETI, EMDI, OEBI)		
European Warrant Exchange - Euwax Stuttgart	TIQS Issuers Interface		
Euronext Derivatives	CCG, Optiq MDG		
ICE Futures Europe	FIX OS, iMpact		
London Stock Exchange Derivatives	SAIL, HSVF		
Madrid Futures Exchange - MEFF	MEFFGate Trading		
NASDAQ Dubai Exchange	FIX, TSMR		
HADDAY DUDAI LADIANYE			

Moscow Exchange Futures & Options Market - FORTS	Plaza-2			
SIX Swiss Exchange - SWX				
Tadawul - Saudi Exchange	STI, QTI, MDI Genium INET FIX, TIP			
Warsaw Stock Exchange	UTP			
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ASIA - CASH				
Australian Stock Exchange - ASX	OMX BDA			
Bursa Malaysia - KLSE				
Hanoi Stock Exchange - HNX Ho Chi Minh Stock Exchange - HOSE / HSX	Various ⁽¹⁾ Various ⁽¹⁾			
Hong-Kong Stock Exchange - SEHK	CMG, OMD-C			
Indonesia Stock Exchange - IDX	FIX, ITCH + GLIMPSE			
Korea Exchange - KRX	Koscom NFS			
National Stock Exchange - NSE	CTCL			
Shanghai Stock Exchange - SSE	SBF, FAST			
Shenzhen Stock Exchange - SZSE	SBF, FAST			
Singapore Exchange - SGX	OMX			
Thailand Stock Exchange - SET	ITCH, OUCH			
Tokyo Stock Exchange / JPX Group - TSE	ArrowHead, TosTNet			
ASIA - DERIVATIV				
Australian Stock Exchange - ASX	OMX			
Australian Stock Exchange - ASX Australian Stock Exchange - ASX24	FIX			
Bombay Stock Exchange	OMB			
Bursa Malaysia - BMD	Market Data Platform 3, iLink			
China Financial Futures Exchange - CFFEX	CTP, Hundsun			
Dalian Commodity Exchange - DCE	Feichuang, CTP, Hundsun			
Dubai Gold & Commodities Exchange - DGCX	Cinnober			
Dubai Mercantile Exchange	NEON/FIX.4.2 (NYMEX)			
Hanoi Stock Exchange - HNX	Various ⁽¹⁾			
Hong-Kong Futures Exchange	OMX, OMD-D			
Korea Exchange	Koscom NFS			
Osaka Securities Exchange / JPX Group	OMX			
Shanghai Futures Exchange - SHFE	CTP, Hundsun			
Shanghai Stock Exchange - SSE	FIX, Hundsun			
Singapore Exchange - SGX	OMX			
Thailand Futures Exchange - TFEX	ITCH, OUCH			
Tokyo Financial Exchange - TFX	MM Quote System			
Zhengzhou Commodity Exchange - ZCE / CZCE	eSunny, CTP, Hundsun			
AMERICAS - CASH MARKETS				
American Stock Exchange	FIX NYSE			
Boston Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX			
BM&FBOVESPA - B3	PUMA			
FXall	FIX			
International Securities Exchange - ISE	FIX Gateway / ISE Depth of Market			
New-York Stock Exchange - NYSE	FIX / ArcaBook, OpenBookRT, OpenBookUltra			
AMERICAS - DERIVA	TIVES MARKETS			
BM&FBOVESPA	PUMA			
CBOE Futures Exchange	FIX / CFN			
Chicago Mercantile Exchange - CME	Market Data Platform 3, iLink			
International Securities Exchange - ISE	FIX Gateway / ISE Depth of Market			
Montreal Exchange - TMX	FIX / STAMP			
ew-York Mercantile Exchange - NYMEX Market Data Platform 3, iLink				
(1) Native exchange connectivity is usually not possible on these markets ; exchange connectivity is done via bank core systems and requires specific				
adaptations.				



ABN Amro

OUTBOUND BROKER FIX CONNECTIVITY⁽²⁾ Worldwide markets - Cash Equity, Equity Derivatives / Possible from LD4 AMER markets - Cash Equity / Possible from LD4 Worldwide markets - Equity Derivatives

Apex Clearing	AMER markets - Cash Equity / Possible from LD4	
Bank of America Merrill Lynch	Worldwide markets - Equity Derivatives	
Barclays BARX	Worldwide markets - Cash Equity, Equity Derivatives	
Bay Crest Partners	AMER markets - Cash Equity	
BNP	ASIA markets - Cash Equity, Equity Derivatives	
Citadel	AMER markets - Cash Equity / Possible from LD4	
Citic Securities	Mainland China markets - Equity Derivatives	
Cowen	EU markets - Cash Equity	
Credit Suisse	Worldwide markets - Cash Equity, Equity Derivatives	
Daiwa	ASIA markets - Cash Equity	
Deutsche Bank	Worldwide markets - Equity Derivatives	
EquitaSIM (Specialist)	Italy market - Cash Equity	
Goldman Sachs	Worldwide markets - Cash Equity / Possible from LD4 ASIA markets - Equity Derivatives	
Shinhan Securities	KRX - Cash Equity, Equity Derivatives	
ICF (Specialist)	Frankfurt Scoach exchange	
InteractiveBrokers	Worldwide markets - Cash Equity, Equity Derivatives / Possible from LD4 & FR2	
Instinet	APAC markets - Cash Equity	
J.P. Morgan	Worldwide markets - Cash Equity / Possible from LD4 CBOE - Options	
Kepler Cheuvreux	EU markets - Cash Equity	
Maybank	SGX, SET - Cash Equity	
Morgan Stanley	Worldwide markets - Cash Equity, Equity Derivatives	
ODDO BHF	EU markets - Cash Equity	
Saxo Bank	Worldwide markets - Cash Equity / Possible from LD4 CME / ICE EU / Eurex - Derivatives	
Société Générale NewEdge	Worldwide markets - Cash Equity, Equity Derivatives	
SwissQuote	Spot Cryptocurrencies	
Tick-TS (Specialist)	Bern exchange	
UBS (including Swiskey)	Worldwide markets - Cash Equity, Equity Derivatives	
Virtu - Knight Capital Group	AMER markets - Cash Equity / Possible from LD4	

(2) Please note these outbound broker connectivity have been built outside a routing network, hence usually requires a re-certification in the client's scope. Also, this list is not exhaustive and new FIX brokers can be added upon demand, following a FIX connectivity certification process.



ORDER ROUTING NETWORKS

IRADE YOUR WAY			
	OUTBOUND		
Bloomberg EMSX FIX Network	FIX-Out		
Bloomberg EMSX FIX for OMS Staging	FIX-Out		
Refinitiv Autex Trade Route	FIX-Out		
INBOUND			
Charles River CRD	FIX-In		
Bloomberg EMSX FIX Network	FIX-In		
ITG/Virtu Net GATE	FIX-In		
NYFIX	FIX-In		
Refinitiv Autex Trade Route	FIX-In		



ActivFinancial

Bloomberg Chi-Tech MarketPrizm GTN Global Trading Network ICE Data Service - Interactive Data Corporation IRESS - QuantHouse Lightstreamer Refinitiv - Reuters Vela Trading Technologies



Aquariux Arqa QUIK **B**clear Beacon Bloomberg Corise Technology Cscreen CSE Feichuang Fidessa (ION) FinIQ FIS - SunGard GL TRADE GBS Hundsun Integral FXCloud **Misys Sophis** Murex **Refinitiv - Reuters** RootNet S&P Global - IHS Markit SFIT SmartTrade Terranoha **Trading Technologies TS** Imagine Ullink (Broadridge Itiviti) Ultumus Vectalis Yeonhap Infomax



Binance Bitstamp Bittrex GDAX / Coinbase Pro ADDX / iSTOX Kraken

MARKET DATA VENDORS

ActivContentGateway API Managed Bpipe (including Zero Footprint), Server API MarketPrizm API REST CTF, MDG FeedOS Java API REST, WebSocket, gRPC TREP JRFA (OMM and MD) MAMA and MAMDA

THIRD PARTIES INTEGRATION

FIX (referential, orders and market data), REST FIX Out (orders and market data) SOAP/axis FIX (Drop Copy) Multi Product Feed, FIX-In Gemizip SOAP/axis **IOMSS FIX** Xspeed API EMMA/OpenAccess, OMAR/OpenAccess, FIX, MDAPI Equity Connect FIX (RFQ) GL API, FIX In, FIX Out FIX Out TCP2 UFX API FIX Out FIX (Drop Copy) FIX (Drop Copy) Datascope Select, Tick History FIX Out Markit SOLA API Comprehensive Transaction Platform (CTP) FIX Out (orders and market data) API FIX Out (orders and market data) **REST** (pricing) FIX In, FIX Out API UTS Direct access **Global Data Feed**

CRYPTOCURRENCIES SECURITY TOKENS

SPOT MARKETS

REST / HTTP + WebSocket FIX REST / HTTP + WebSocket

DERIVATIVES MARKETS REST / HTTP

Binance CBOE Chicago Mercantile Exchange REST / HTTP + WebSocket REST / HTTP + WebSocket Market Data Platform 3, iLink