

## EUROPE - CASH MARKETS

### Primary Markets

Amsterdam Stock Exchange	UTP, Optiq MDG
Athens Stock Exchange	OASIS IDS - ODL
Borsa Istanbul	Genium INET FIX
Borsa Italiana MTA	MillenniumIT
Borsa Italiana ETFPlus	MillenniumIT
Brussels Stock Exchange	Optiq OEG, MDG
Copenhagen Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
Helsinki Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
Iceland Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
Irish Stock Exchange	T7
Lisbon Stock Exchange	Optiq OEG, MDG
London Stock Exchange	MillenniumIT
Moscow Exchange MICEX-RTS	MFIX, FIX/FAST
NYSE Euronext	UTP MD, UTP Direct
Oslo Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
Paris Stock Exchange	Optiq OEG, MDG
Riga Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
Frankfurt Certificate Stock Exchange (ex-Scoach)	VALUES, CEF, XQS
SIX Structured Products Exchange (ex-Scoach Swiss)	STI, QTI, MDI
SIX Swiss Exchange - SWX	STI, QTI, MDI
Stockholm Stock Exchange	NASDAQ OMX ITCH, OUCH, FIX
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)	T7

### Multilateral Trading Facilities

BATS Chi-X Europe	FIX, PITCH, Multicast PITCH
NYSE Arca Europe	UTP MD, UTP Direct
LSE Turquoise	MillenniumIT

## EUROPE - DERIVATIVES MARKETS

Athens Stock Exchange	OASIS IDS - ODL
Borsa Istanbul	Genium INET 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
Moscow Exchange Futures & Options Market - FORTS	Plaza-2
SIX Swiss Exchange - SWX	STI, QTI, MDI
Warsaw Stock Exchange	UTP

### ASIA - CASH MARKETS

Australian Stock Exchange - ASX	OMX
Bursa Malaysia - KLSE	BDA
Hong-Kong Stock Exchange	OCG, OMD-C
Korea Exchange	Koscom NFS
National Stock Exchange - NSE	CTCL
Shanghai Stock Exchange - SSE	SBF, FAST
Shenzhen Stock Exchange - SZSE	SBF, FAST
Thailand Stock Exchange - SET	Cinnober EMAPI
Tokyo Stock Exchange / JPX Group	ArrowHead, TosTNet

### ASIA - DERIVATIVES MARKETS

Australian Stock Exchange - ASX	OMX
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
Hong-Kong Futures Exchange	OMX, OMD-D
Hong-Kong Mercantile Exchange	EMAPI
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	Cinnober EMAPI
Tokyo Financial Exchange - TFX	MM Quote System
Zhengzhou Commodity Exchange - ZCE / CZCE	eSunny, CTP, Hundsun

### AMERICAS - CASH MARKETS

BM&FBOVESPA	PUMA
FXall	FIX
International Securities Exchange	FIX Gateway / ISE Depth of Market
New-York Stock Exchange	FIX / ArcaBook, OpenBookRT, OpenBookUltra

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### AMERICAS - DERIVATIVES MARKETS

BM&FBOVESPA	PUMA
CBOE Futures Exchange	FIX / CFN
Chicago Mercantile Exchange	Market Data Platform 3, iLink
International Securities Exchange	FIX Gateway / ISE Depth of Market
Montreal Exchange	FIX / STAMP
New-York Mercantile Exchange	Market Data Platform 3, iLink

### AFRICA - CASH MARKETS

Johannesburg Stock Exchange	MillenniumIT
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## BROKERS CONNECTIVITY

ABN Amro	FIX - TickTS, ORC
Ahorro	FIX
Bank of America Merrill Lynch	FIX
Barclays BARX	FIX
Bay Crest Partners	FIX
BNP FIBEX	FIX
BNP FrontIERS	FIX
Calyon CLS	FIX
CLSA	FIX
Calyon Frontiers	FIX
Credit Suisse	FIX
Daiwa	FIX
Deutsche Bank	FIX
Goldman Sachs	FIX
Goodmorning Shinhan	FIX
HSBC	FIX
InteractiveBrokers	FIX
Instinet	FIX
JP Morgan	FIX
Kepler Cheuvreux	FIX
Knight Capital Group	FIX
Morgan Stanley	FIX
Newedge	FIX
Nomura	FIX
OCBC	FIX
SYWG	FIX
UBS	FIX

## MARKET DATA & THIRD PARTY VENDORS

ActivFinancial	ActivContentGateway API
Arqa QUIK	FIX
Bclear	SOAP/axis
Bloomberg	Multi Product Feed, Managed BPipe
Chi-Tech MarketPrizm	MarketPrizm API
Cscreen	SOAP/axis
Feichuang	Xspeed API
Fidessa (ION)	EMMA/OpenAccess, OMAR/OpenAccess, FIX, MDAPI
FIS - SunGard GL TRADE	GL API
Hundsun	TCP2 UFX API
Integral FXCloud	FIX
InteractiveData	CTF, MDG
QuantHouse (Iress)	FeedOS Java API
Reuters	JRFA (OMM and MD)
RootNet	FIX
SFIT	Comprehensive Transaction Platform (CTP)
SmartTrade	FIX
Trading Technologies	FIX
Ullink (Itiviti)	FIX
Vectalis	UTS Direct access
Vela Trading Technologies	MAMA and MAMDA

**CRYPTOCURRENCIES****SPOT MARKETS**

Binance	REST / HTTP + WebSocket
Bitstamp	REST / HTTP + WebSocket
Bittrex	REST / HTTP + WebSocket
GDAX / Coinbase Pro	REST / HTTP + WebSocket
Kraken	REST / HTTP + WebSocket