

# ICE Global Network



## Connecting you to global markets

The global nature of financial and commodity markets means a growing demand for a broad spectrum of data. As a vital backbone for financial and commodity market information flow, the ICE Global Network connects the global market community to important content, supporting trading and risk management across asset classes via an ultra-secure infrastructure.

### Depth and breadth of content & community

Spans equities, fixed income, futures, options and FX markets offering direct access to 150+ trading venues and information from 750+ proprietary and third party sources

### Flexible delivery options

Engineered to handle high volume requirements and provide ultra-high security, the network has scalable bandwidth and a variety of connectivity options

### Ultra-high security

ICE Global Network utilizes private line connectivity to securely route orders and access hundreds of liquidity venues, feeds, clearing, and other trading services

## Services

### Fiber Networks

- High availability and low latency fiber networks connecting you to a broad range of content across asset classes
- Connectivity to primary and disaster recovery facilities for the major trading venues on network
- Top-tier capacity with 100Gbps native backbone in the US and 20Gbps in EMEA

### Wireless Networks

Ultra-low latency wireless routes offering significant speed advantage over fiber

### Colocation & Hosting

Colocate your equipment in an environment a designed for business continuity

- New Jersey Metro • Toronto - New Jersey and high security with our robust data and access facilities available globally
- Chicago - New Jersey • Colocation at ICE Data Centers •
- Chicago - Tokyo - Shanghai • Hosting in 10 global locations
- Precision timing services
- Shared hosting and managed networking

### Cloud Connect & Network Extension

- Access to the network through any public cloud environment or 500+ additional locations across the globe through the Megaport Software Defined Network



## Topology



# ICE Global Network

## Breadth & Depth of Content

On demand access to 150+ liquidity venues spanning a broad range of asset classes including ICE and NYSE markets, as well as 750+ market

data feeds. **Important content**



ICE & NYSE exchange data 150+ additional liquidity venues

- ICE Futures US & execution services
- ICE Futures Europe • Lit Markets: 150+ global venues
- ICE Futures Singapore • Dark Markets: ~10 dark pools
- ICE Index • Execution Services: 15 including
- NYSE 3 US Treasury trading venues
- NYSE Arca
- NYSE American
- NYSE National

### Additional proprietary

#### data offerings

- ICE Consolidated Feed: 25m+ instruments capture files across 750+ data sources • GPS based nanosecond precision timestamps
- Pricing & Reference Data: 11m+ applied in each exchange colocation data center instruments across 200+ markets globally
  - Coverage includes low latency direct feeds
- Continuous Evaluated Pricing: real-time for key U.S. and European equities and futures streaming evaluated prices across fixed exchanges
  - ICE, NYSE, EURONEXT, NASDAQ US, CBOE US,
- Derivatives Data: CME cross-asset derivatives reference and mark-to-market data

### Raw Tick Data

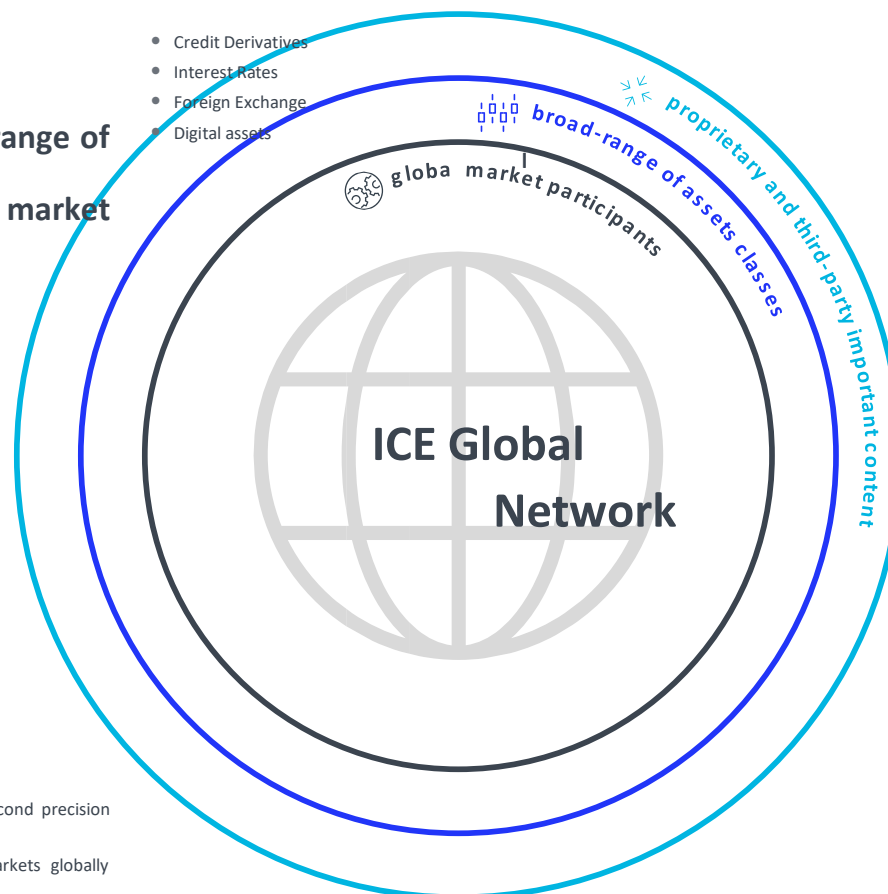
- Market data captured off the wire as packet



## Broad range of asset classes

- Equities & Equity Derivatives
- Commodities: Agriculture, Energy, Metals
- Fixed Income

- Credit Derivatives
- Interest Rates
- Foreign Exchange
- Digital assets



## Global market participants

- Banks
- Broker / Dealers
- HFTs
- Market Makers / Prop Trading
- ISV / Service Providers

# ICE Global Network

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Activ Financial	ICE Swap Trade	Aquis Exchange	ASX (NTP Derivatives)
Aequitas NEO Exchange	IEX (Investors Exchange)	BME - Bolsas y Mercados Españoles	CXA (CHI-X Australia)
ATG Americas	IIROC	Borsa Italiana Group	CXJ (CHI-X Japan)
Barclays Capital	Jane Street Capital	CBOE Europe	HKEX (OMD C Securities & D Derivatives)
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BOX (Boston Stock Exchange)	Knight Trading	Equiduct	ICE Futures Singapore
Broadridge (ADP)	Lime Brokerage	Euronext Group	JPX (TSE Flex Standard/Full, OSE)
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Citadel Unicast Services	MSCI Indexes	ICE Clear Europe	TWSE (TWSE, OTC/TPEx, TAIFEX)
CME (CME, NYMEX, COMEX, CBOT)	MT Newswires	ICE Clear Netherlands	LATAM
CME (BME, DME, MGEX,KRX, Indexes, Bitcoin)	NASDAQ Canada (CXC, CX2, CXD, Basic)	ICE Futures Europe	B3 - BM&F & Bovespa
Credit Suisse	NASDAQ US (All Markets)	ICE Futures Abu Dhabi	BCS - Bolsa de Santiago
Creditex	NYSE American	ICE Endex (Financials)	BMV - Bolsa Mexicana de Valores
CSE - Canadian Securities Exchange	NYSE American Options	Itiviti (ULLink London-Paris)	BVC - Bolsa de Valores de Colombia
CTA (NMS CQS/CTS, OPRA)	NYSE Arca	JSE - Johannesburg Stock Exchange	BVL - Bolsa de Valores de Lima
Currenex	NYSE Chicago	LMAX Exchange Group	BYMA - Bolsa y Mercados Argentinos
DASH FT	NYSE National	LME - London Metal Exchange	MexDer - Mercado Mexicano de Derivados
Deutsche Bank Broker Securities	NYSE	LSEG - London Stock Exchange Group	ICE Data Services – Proprietary Content
DTCC	Omega/Lynx ATS	MOEX - Moscow Exchange	ICE Data Services eSignal
ETF Global	OneChicago	Morgan Stanley MTF	ICE Data Indices
FFastFill	OTC Markets	NASDAQ OMX Nordic	ICE ETF Hub

# ICE Global Network

FxAll	Small Exchange	NGM - Nordic Growth Market	ICE Bonds
FXCM (FX Capital Markets)	Softek	NSX - Namibian Stock Exchange	ICE Consolidated Feed
GTS Execution Services	Susquehanna International Group	ParFX (Tradition)	ICE Connect Desktop
ICE Clear Credit	TD Ameritrade	SIX Swiss Exchange	ICE MERS
ICE Clear US	TMX Group (TSX, MX)	Societe Generale Alpha-Y	Pricing & Analytics (CEP - Continuous Evaluated Pricing)
ICE Endex	TriAct Matchnow (ITG)	UBS MTF	Pricing & Analytics (End Of Day)
ICE Futures U.S.	ULLink PTRMS	Virtu Trading Services	Pricing & Analytics (Quotevision)
ICE NGX (Canada)		Warsaw Stock Exchange	WebICE

Global Content Coverage List – Live markets as of April 1, 2020

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