



FIX Protocol Limited

The FIX Protocol is owned and maintained by FIX Protocol Limited (FPL), a non-profit organization with more than **280 member firms** globally. Employees from these member firms contribute time and effort to ensure that the protocol is continuously developed to meet evolving market requirements

‘To improve the global trading process by defining, managing, and promoting an open protocol for real-time, electronic communication between industry participants, while complementing industry standards’.

FPL Mission Statement

FIXPROTOCOL
INDUSTRY-DRIVEN MESSAGING STANDARDSM

 **ABN·AMRO** Clearing

CREDIT SUISSE 

 **RBS**TM
The Royal Bank of Scotland



Bank of America 
Merrill Lynch

Deutsche Bank



 **ICAP**

INSTINET.

 **BARCLAYS**
CAPITAL



EQUINIX

**I
T
G.**[®]



THOMSON REUTERS



EuroCCP



Tradeweb



 **Fidelity**
INVESTMENTS

iress

J.P.Morgan

CAMERON

The Standard

Fidessa

Morgan Stanley





NOMURA



UBS

 **CME Group**
A CME/Chicago Board of Trade Company

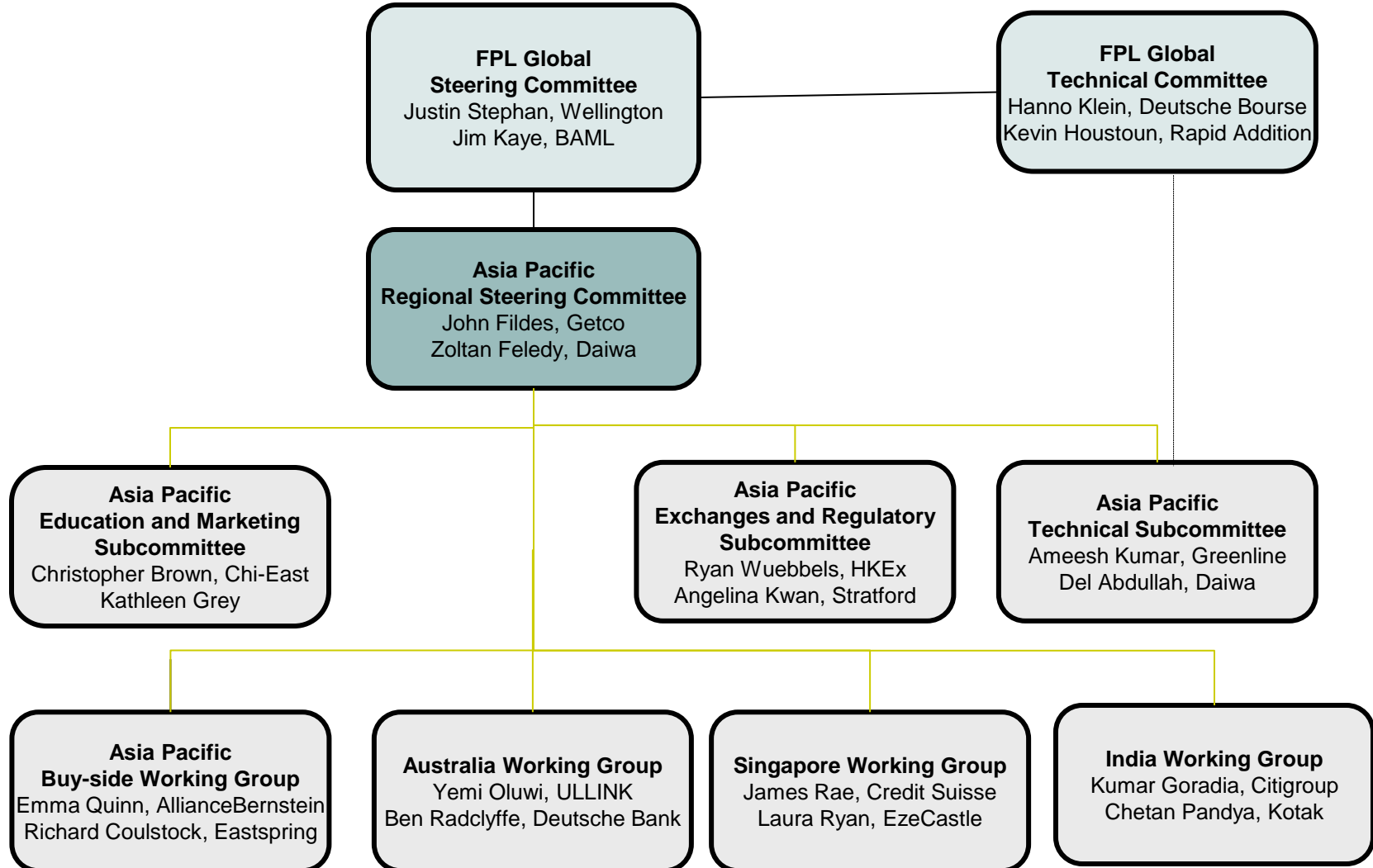
HSBC 
Global Banking and Markets

 **NYSE Technologies.**

Ullink



Who's who in FPL Asia Pacific





FIX in action...

...the activities and market players impacted by the FIX Protocol are far reaching:

Main players

- investment managers
- brokers
- trading platforms
- regulators
- other parties

Main asset classes

- equities
- fixed income
- derivatives
- foreign exchange

Functions supported by FIX

- basic order flow
- IOIs and advertisements
- quotes
- market data
- program trading
- algorithmic trading
- trade reporting
- security and position reporting
- collateral management
- multi-leg order flow
- allocations
- confirmations/affirmations
- news
- regulatory compliance



Source: Oxera

Why has FIX been successful?

- Increased trade efficiencies
- Quality execution
- Automation
- Electronic audit trail
- Reduced operational risk
- Accuracy
- Enhanced transparency
- Significant ROI
- Reduced time to market due to standardization

Investment Roadmap – FIX, ISO, FpML, XBRL syntax (HIGH LEVEL)

	Function	Cash Equities & Fixed Income	Forex ⁽²⁾	Listed Derivatives	OTC Derivatives ⁽²⁾	Funds
Issuer	Pre-investment decision		N/A		N/A	
Front Office	Pre-Trade					
	Trade					
Middle Office	Post-Trade	▲ ●	▲ ●	▲ ●		
	Clearing / Pre-Settlement			▲ ●		
Back Office	Asset Servicing	● ◆	N/A			● ◆
	Collateral Management	▲ ●	N/A	▲ ●	■ ●	N/A
	Settlement					
	Pricing / Risk / Reporting	■ ●	■ ●	■ ●	■ ●	■ ●
Investor Supervision	Regulatory Reporting	▲ ●	▲ ●	▲ ●		
Issuer Supervision	Regulatory Reporting		N/A		N/A	

▲	FIX	●	ISO (1)
■	FpML	◆	XBRL

(1) Represents ISO 20022, ISO 15022 and MT messages

(2) See OTC Derivatives breakout for details:

- Syndicated Loans, Privately Negotiated FX, and OTC Equity, Interest Rate, Credit, and Commodity Derivatives
- FpML payload may be used in combination with FIX business processes in dealer to buy side communication

FIPL explained...

Latency Measurement Impact of the FIX IPL Standard

TS-Associates' Henry Young, Co-chair of the FIX IPL Working Group, discusses the anticipated impact of the new FIX Inter Party Latency (FIX IPL) standard.



The FIX Inter Party Latency (FIX IPL) standard, version 1.0, will hit the streets shortly after this issue has gone to press. Now that all the hard work of designing, formulating and testing the standard has been completed, thoughts turn naturally to issues of adoption and impact on the market for latency monitoring solutions. But let's first revisit the motivation for FIX IPL.

The 1.0 release of FIX IPL is designed to achieve two things:

- The standardisation of where latency is measured, and
- Interoperability between latency monitoring solutions.

The first point enables latency statistics published by different firms to be compared more meaningfully - 'apples to apples' style. The second point enables the latency monitoring

solutions operated by different firms to be interconnected or 'peered', so that inter party latency can be measured without requiring each firm to operate a latency monitoring solution supplied by the same vendor.

The next point to consider is the likely adoption of such an interoperability standard. What's in it for financial market participants, and for latency monitoring solution vendors? As participation in the FIX IPL Working Group has demonstrated, both constituents see advantages in such a standard existing and being widely adopted. This will make inter party latency monitoring easier, it will reduce costs for participants, lower the barriers to entry for new solution vendors, thereby creating a larger, broader and faster growing market for latency monitoring solutions. This will be to everybody's advantage. Those who follow the proprietary route and



Henry Young,
Co-chair, FIX IPL Working Group
and CEO, TS-Associates.

fail to adopt the standard will be left out in the cold. We expect support for FIX IPL to become a standard tick box item in latency monitoring RFPs.

FIX Inter Party Latency (FIX IPL) Standard

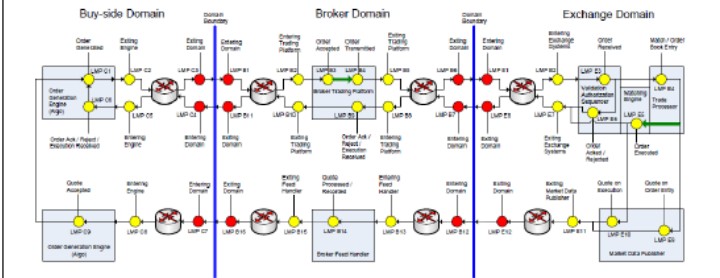
The FIX IPL Working Group is part of the non-profit, global, FPL organisation and has over 190 members encompassing ex changes, brokers, funds, service providers and latency monitoring solution providers. The working group has brought together leading industry experts to standardise two specific aspects of latency measurement.

Firstly, the working group has developed a taxonomy of

standardised measurement points. This is vitally important, so that when different organisations publish latency statistics that comply with the standard, financial market participants will know the data can be compared on a like-for-like basis. The FIX IPL taxonomy is shown in the schematic.

Secondly, the working group has developed a latency data interoperability protocol. This

has been designed to enable interoperability between latency monitoring solutions, thus freeing the industry from unacceptable bilateral constraints on purchasing decisions. A widely adopted latency measurement interoperability protocol will, as with FIX, break down the barriers to the uptake of standards-compliant latency monitoring solutions.



FPL FIX IPL WG

Interest in FIPL is high...

Alpha Trading Systems

Angel Networks

B2BITS EPAM Systems Company

Bank of America Merrill Lynch

BATS Europe

Bloomberg L.P.

BM&F BOVESPA

BMO Capital Markets

Bolsas y Mercados Españoles (BME)

Brook Path Partners, Inc.

BT Global Services

CameronTec

Cantor Fitzgerald

Cape City Command LLC

Chicago Board Options Exchange

Chi-X Europe

CIBC World Market

Citi

CME Group

ConvergEx - Eze Castle Software

Correlix

Corvil

Credit Suisse

cTrader

Deutsche Bank

Deutsche Boerse Group

Edge Financial Technologies Consulting

Endace Technology

Epam Systems

Etrading Software Ltd

EZX Inc.

Fidelity Capital Markets

Fidessa group

Fusion Systems Ltd.

Goldman, Sachs & Co.

Greenline Financial Technologies, Inc.

Hong Kong Exchanges & Clearing

HSBC

IG Group Holdings PLC

IIROC

Instinet

Interactive Data

Investment Technology Group (ITG)

IPC Systems

J.P.Morgan

JetTek

Jordan & Jordan

Knight Capital Group

Lasalle Technology

London Stock Exchange

London Stock Exchange Group

Mantara

Merrill Lynch & Company

Mizuho Securities

Morgan Stanley

Nomura

Nordic Growth Market

NYSE Technologies

Pantor Engineering AB

Quanthouse

R Shriver Associates

Rapid Addition

RBC Global Asset Management

Reuters

Royal Bank of Canada Capital Markets

Royal Bank of Scotland

RTS Realtime Systems

SIX Swiss Exchange

Societe Generale

SS&C Tradeware

STAC

SunGard

Sungard Global Trading

Tbricks

Teraspaces, Inc.

The 451 Group

The LaSalle Technology Group

Thomson Reuters

Tradeweb

Transaction Network Services, Inc.

TS-Associates

TSX Inc. (Toronto Stock Exchange)

UBS Investment Bank

ULLINK

Volante Technologies

Wall Street FPGA

Wellington Management Company LLP

High Performance Interfaces Working Group keen to include more Asia Pacific exchanges.

360 Treasury Systems AG

Algorithmic Trading Management (ATM)

Baader Bank Aktiengesellschaft

Banco Itaú Unibanco

Bank of America Merrill Lynch

Barcap

Barclays Capital

Baymarkets AB

Bloomberg L.P.

BM&F BOVESPA

Bolsas y Mercados Españoles (BME)

Brook Path Partners, Inc.

CameronTec

Cantor Fitzgerald

Cape City Command LLC

Chi-X Europe

CIBC World Market

Citi Group

CME Group

ConvergEx

Credit Suisse

Deutsche Bank Securities

Deutsche Boerse Group

Ecominds

Equinix

Etrading Software Ltd

Fidessa group

FIX Flyer

FIXNETIX

FIX Solutions

Franklin Templeton Investments

GETCO Asia

Goldman, Sachs & Co.

Greenline Financial Technologies, Inc.

IIROC

Informagi AB

Investment Technology Group (ITG)

IPC Systems

JetTek

Jordan & Jordan

J.P.Morgan

KaiTrade LLC

Kanonkod

KBC Financial Products

London Intl Financial F&O Exchange

London Stock Exchange

London Stock Exchange Group

Macquarie Securities Limited

Mantara

Morgan Stanley

NASDAQ OMX

National Bank Financial

NMK Consulting Ltd

Nomura

NYSE Group

NYSE Technologies

Pantor Engineering AB

Patsystems

Prediction Labs

Proquote

Quanthouse

Rapid Addition

Royal Bank of Canada Capital Markets

Royal Bank of Scotland

R Shriver Associates

RTS Realtime Systems

Spot Trading

StreamBase Systems, Inc.

SunGard

Tepin Information, LLC

The LaSalle Technology Group, LLC

Thomson Reuters

Trading Technologies

TS-Associates

UBS Investment Bank

ULLINK

Wall Street FPGA

Winterflood Securities