

FIX TRADING COMMUNITY

EMEA Trading Conference 2025

– Update from the Global Technical Committee –

Thursday 6th March 2025

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Agenda

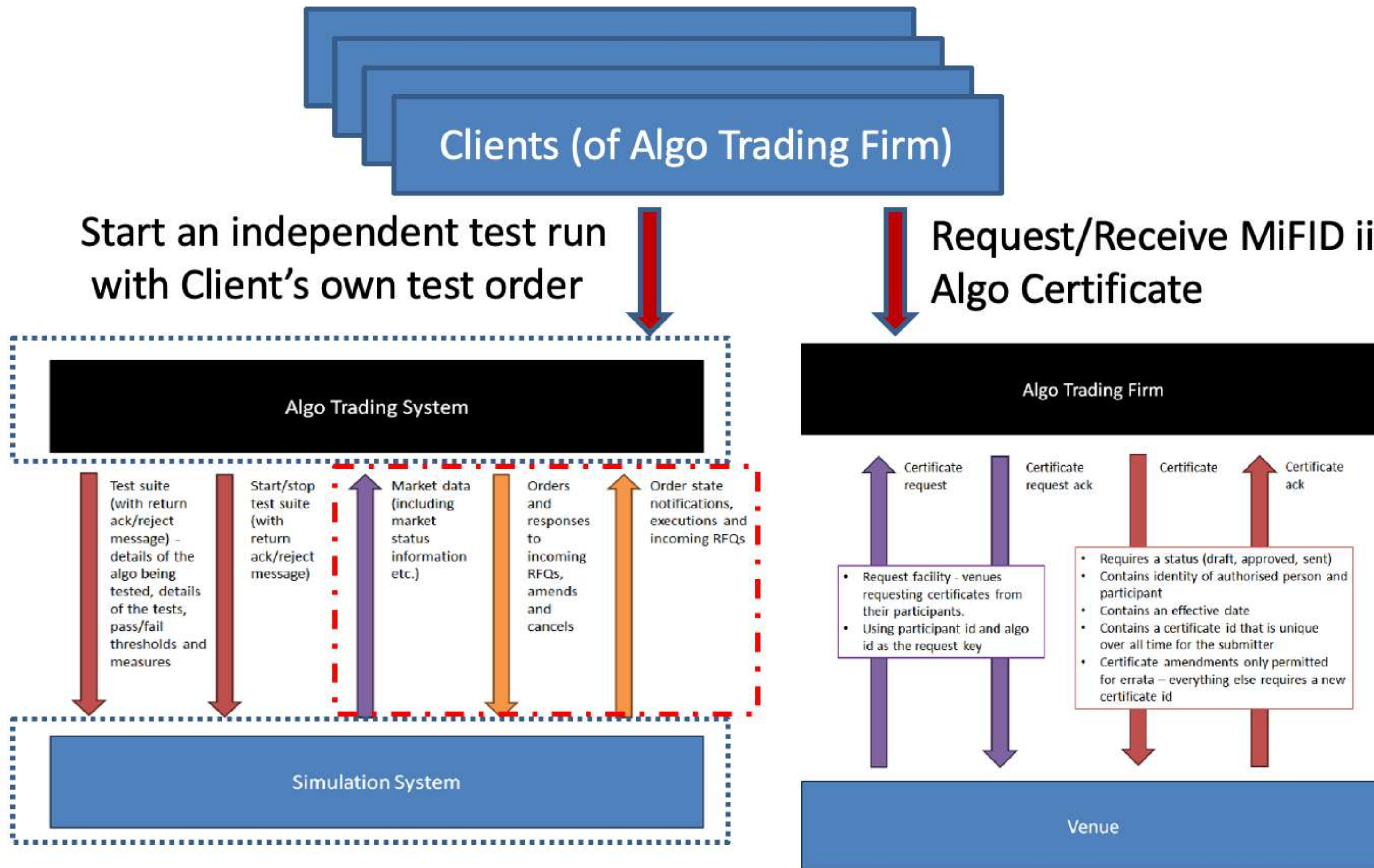
- What's new in FIX Latest?
 - FIX Business Standard for Algo Certification and Testing (EP292/EP295)
 - List of Extension Packs (EP285 – EP295)
- Tools for the FIX User Community
- FIX Technical Standards Update
- GTC Collaboration with ISO 20022

What's new in FIX Latest?

Algo Certification and Testing



Algo Certification and Testing



Algo Certification and Testing

■ Algo certification

- MiFIR requires investment firms engaged in algorithmic trading with venues to certify their algos towards the venue (RTS 7, Article 10(1)).
- Firms need to identify an employee as “authorising person” who provide certifications together with detailed information related to the algorithm and how it has been tested.
- A single algo contains a number of parameters and detailed information about the algo system.
- EP292 added four new messages to support the certification workflow between firms and venues.

■ Test suite definition

- The testing of algorithms is based on test suites with multiple test scenarios comprising a possibly very large number of test steps.
- A scenario further contains detailed information about the system being used for testing the algo.
- Every step in a scenario has its own set of parameters and start/end times.
- EP292 added two new messages to define and acknowledge test suites.

■ Test suite execution

- The execution of test suites generates results per scenario for different metrics.
- EP292 added three new messages to support the execution of test suites.

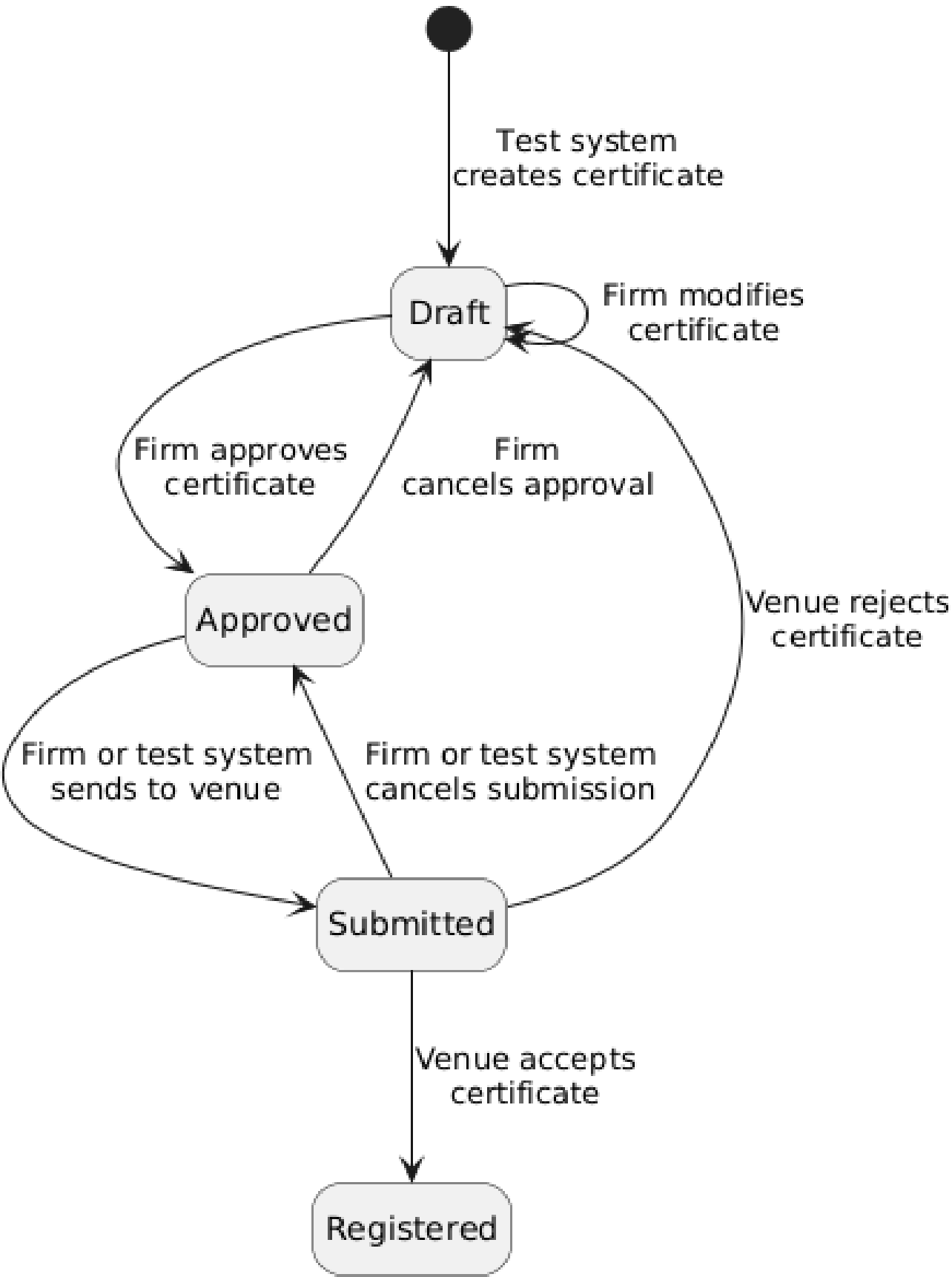
Algo Certification and Testing

■ Algo certification enhancements

- EP295 added a number of enhancements after the introduction of algo certification with EP292.
- Extensibility from a 3-party (trading firm, simulation system, venue) to a 4-party model to include the clients of trading firms that may request and execute certificates for algos it is authorized to use.
- Extension of the state change model for algo certificates (Draft, Approved, Submitted) by adding a “Registered” status.
- Ability to link a test scenario to a single venue and its market data.
- Ability to execute only a subset of test scenarios making up a test suite, e.g. when test scenarios span multiple venues.
- Ability to add connection information regarding market data gateways and order entry gateways of simulation systems (emulating a series of linked markets).
- Addition of request and report types to identify the business context of algo certificate messages.
- Addition of timestamps to identify the latest version of an algo or test module.

Algo Certification and Testing

Sequence Diagram for Algo Certification



Algo Certification and Testing

		Status fields	TestSuiteStatus (3070)	TestScenarioStatus (3030)	TestMeasureResult (3057)
			0 = Undefined 1 = Pass 2 = Fail 3 = Warning	0 = Undefined 1 = Pass 2 = Fail 3 = Warning	0 = Undefined 1 = Pass 2 = Fail 3 = Warning
AlgoCertificationReport(35=EJ)			any value		
	TestScenarioGrp			any value	
		TestMeasureGrp			any value
TestScheduleDefinitionRequest(35=EL)					
	TestScenarioGrp			0=Undefined	
		TestMeasureGrp			0=Undefined
TestActionReport(35=EP)			any value		
	TestScenarioGrp			any value	
		TestMeasureGrp			any value

What's new in FIX Latest?

List of Extension Packs



FIX Business Standards

- EP285 – Average Pricing Enhancements
 - Additional granularity for notional value average pricing (NVAP)
 - New repeating group AllocGroupSubQtyGrp for subgroups of an average pricing group
- EP286 – Addendum to MMT v4.0 and v4.1 support
 - Distinction between hybrid and other market mechanisms for market data messages
 - Support for trading mode “On Demand Auction”
- EP287 – Maturity frequency
 - Support for frequency of maturities for derivative instruments, e.g. daily, weekly, monthly
- EP288 – Security Risk Metrics
 - Specialized calculations and statistics in order to evaluate current market state of options
 - New message SecurityRiskMetricsReport(35=EG) for the pre-trade business area
- EP289 – EU/UK Post-Trade Transparency
 - New repeating group TradeTypeGrp for an unlimited number of concurrent trade flags.
 - New trade flags (CLSE, NETW, IFND, ENAV).
- See <https://www.fixtrading.org/extension-packs/> for EP details

FIX Business Standards

- EP290 – FX Reject Code Enhancements
 - Alignment of FX reject codes with Investment Association's proposed categories to meet the requirements of the FX Global Code.
- EP291 – Allocation Timestamps
 - Enhancement of allocation messages with timestamps to support SEC requirements.
- EP292 – Algo Certification and Testing
 - Support for the algorithmic trading regulatory requirements in Europe as defined by MiFIR.
- EP293 – Non-USD FX NDF Enhancements
 - Clarify the usage of the RateSource component for FX NDF fixings due to markets evolving.
- EP294 – Errors and Omissions 2023-2024
 - Resolution of errors and omissions detected during 2023 and 2024.
- EP295 – Algo Certification and Testing Enhancements
 - Enhancements of EP292.
- See <https://www.fixtrading.org/extension-packs/> for EP details

Tools for the FIX User Community

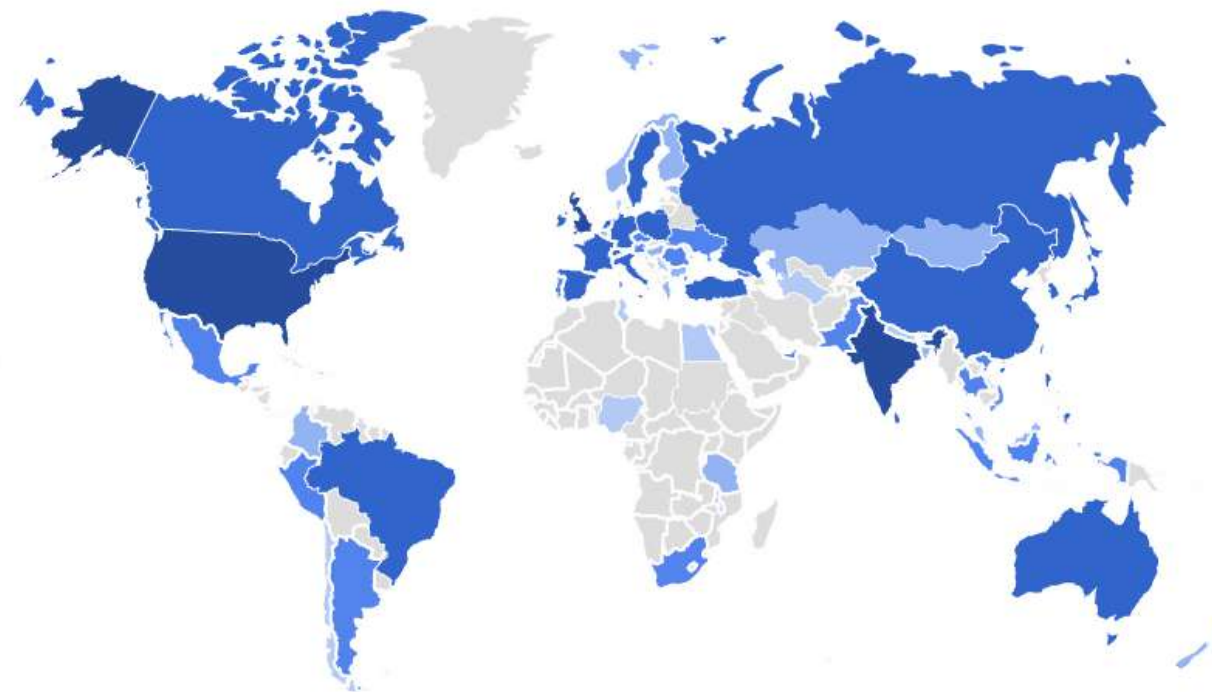


Tools for the FIX User Community

- FIX hosts a number of tools for the FIX user community that it has developed over a number of years.
- The main tool is FIXimate (<https://fiximate.fixtrading.org/>) that uses FIX Latest (in Orchestra v1.0 format) as input.
- FIXimate is heavily used by the community around the globe (see next slide).
- Tools have been developed for Orchestra v1.0 and will require updates to work with the upcoming Orchestra v1.1.
- GTC has been made aware of tools developed by the FIX user community that are free and use state-of-the-art technology.
- Going forward, the GTC would like to involve the user community in the development and maintenance of tools related to Orchestra.
- Objective is to establish an open-source community by actively seeking engagement from the FIX membership to help maintain and advance existing FIX tools and/or contribute additional tools as either open-source or free to use.
- The next step is to develop a more detailed concept and engage with the FIX membership to identify interested parties.

Usage of FLXimate (Feb 7-14, 2025)

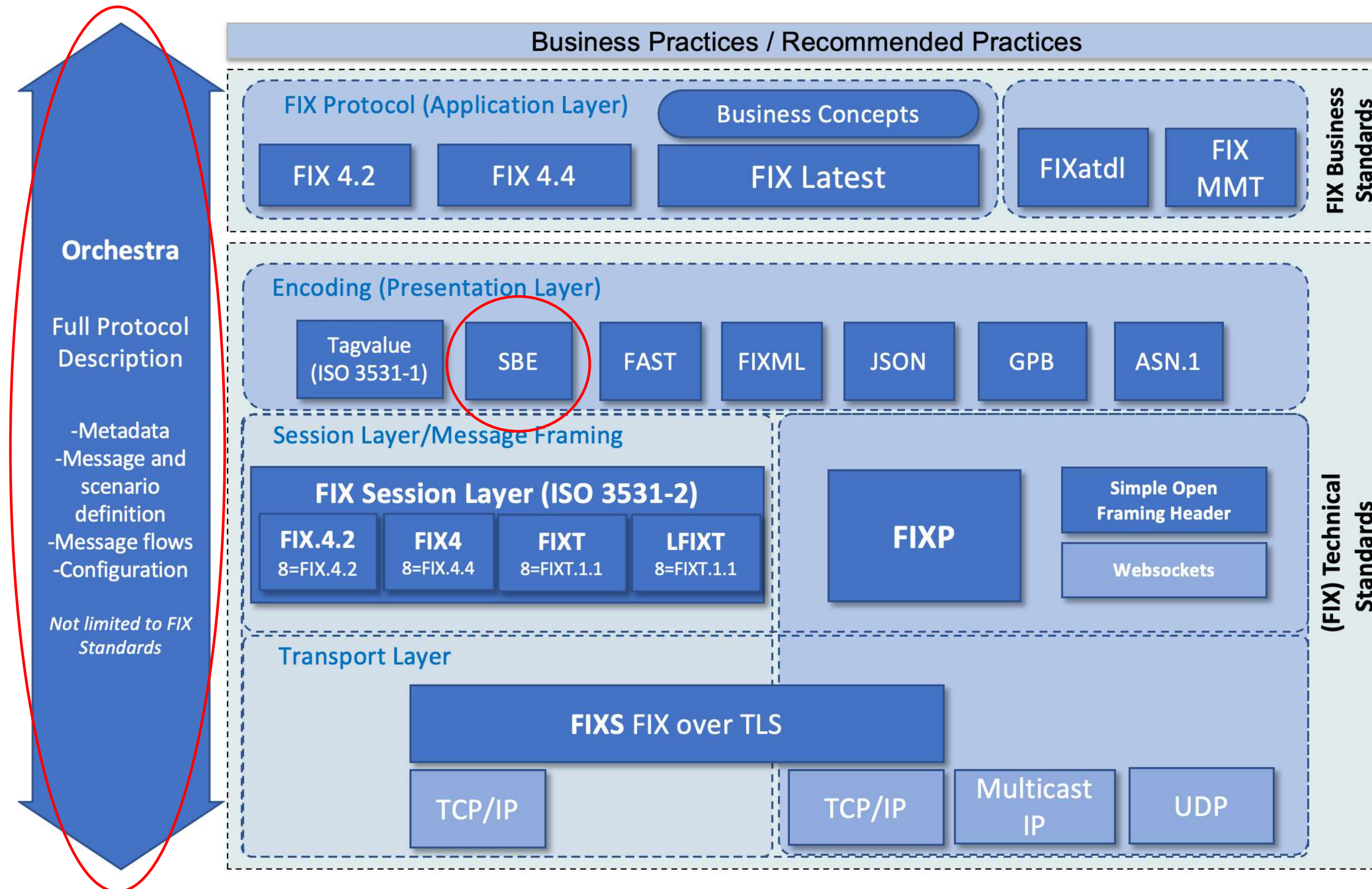
- 2,140 distinct users from 67 countries (US: 27%, UK: 23%, India: 8%, Germany: 4.3%, Hong Kong: 3.7%) and 430 cities.
- Average duration of visit: 38 seconds
- Favourite fields: MsgType(35), ExecType(150), OrdStatus(39), OrdType(40)
- Devices: desktop (97.6%), mobile (2.3%), tablet (0.1%)
- OS: Windows (87%), MAC (8.2%), Linux (2.8%)
- Browser: Chrome (70%), Edge (24%), Firefox (3.8%), Safari (2.2%)

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FIX Technical Standards Update



FIX Standards



FIX Technical Standards Update

■ Orchestra

- Version 1.0 published February 2021
- Version 1.1 Release Candidate 1 published November 2023
- Version 1.1 Release Candidate 2 published November 2024
- Version 1.1 Release Candidate 3 is work in progress, focus on multi-encoding support

■ Simple Binary Encoding

- Version 1.0 Errata published November 2020 and submitted to ISO/IEC JTC1 June 2024
- Ballot closed with a positive vote on January 8, 2025 and is now approved for registration as Final Draft International Standard (ISO/IEC DIS 25390).
- Work on Version 2.0 had been ongoing during 2018 and 2019, including the publication of two Release Candidates. Continuation of the work depends on the interest in the community.

■ GitHub for standards development

- GitHub supports the FIX working groups and is open to non-members
- Artifacts are maintained in public GitHub repositories (<https://github.com/FIXTradingCommunity>)
- GitHub discussions are used to work on larger enhancements, e.g. scenario relationships
- GitHub issues and pull requests are required to propose specific changes or corrections
- GitHub projects are used to plan versions and Release Candidates

GTC Collaboration



GTC Collaboration with ISO 20022

- ISO/TC68

- Scope: Standardization in the field of banking, securities and other financial services, chaired by Jim Northey, FIX Board of Directors.
- SC9 (Standardization in the field of information exchange for financial services) supported by FIX resources in WG1 (ISO 20022 Semantic Models) and WG4 (ISO 20022 revision).

- ISO 20022 Securities SEG

- Securities SEG and SubSEG (<https://www.iso20022.org/securities-seg-and-subseg>) cover messages supporting transactions and business processes related to various asset classes and are supported by FIX resources.
- Derivatives SubSEG reviews change requests for ISO 20022 messages related to authorities globally such as regulators and national banks. FIX is supporting this SubSEG with subject matter experts.

- ISO 20022 Registration Management Group (RMG)

- ISO 20022 RMG supervises the overall registration process, defines the business domains for Standards Evaluation Groups (SEGs) and reports to ISO TC68/SC9.
- RMG Practice Design working group is looking into an operating framework towards FIX and ISO 20022 interoperability and is actively documenting the similarities and differences in business elements and business models between FIX and ISO 20022.