



Certify 1.0

Test and Certification Suite

HIGHLIGHTS

Certify, the integrated test suite from Fixbytes, is a web-based application designed to provide analysis, functional testing, production log replay, regression testing, load testing and client certification capabilities for FIX infrastructure. **Certify** is a comprehensive web-based test and certification suite (for both buy and sell side) that reduces the overall period of implementation and cost to the company and hence increases speed-to-market for the deployment of FIX protocol-based systems through various testing mechanisms.

Certify gives the complete test platform, with interfaces to the internal systems and with external counter-parties.

Certify consists of a number of test modules like:

Order Generator: This module provides a comprehensive browser-based user interface (GUI) to send all types of application messages to counter-parties for generating the Order.

Scenario Generator: This module generates scenarios in the form of simple scripts and messages, which can be sent to counter-parties as per the scenarios, expected results can be verified with the responses from counter-parties and any application level mismatch can be notified in the form of user-defined reports.

Regression Tester (Production Log Replayer): This module takes the input from production logs and reproduces the exact (existing) production scenario by simulating the buy and sell sides and replaying the messages as in the production environment, generating the report for any mismatch in FIX tags. This is a very useful feature for ensuring the existing system behavior is the same after changes in the internal systems. Benchmark logs can be created and other test logs can be compared against these benchmark logs.

High Volume Message Injection (Load Tester): This module provides the mechanism and platform to load-test the existing FIX-based application by 'firing' the FIX messages with configured time-interval and number of messages. This can readily test the existing FIX engine to its capacity. It also provides the feature for uploading the messages from text-file and 'firing' them with preconfigured time interval. It can also generate the user-defined report for the defined user parameters in the system.

Certify Features

Product Support

- Supports testing application on all FIX Protocol versions - 4.0, 4.1, 4.2, 4.3, 4.4, 5.0
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX
- Multi Platform support like Sun Solaris, HP-UX, UNIX, Linux and Windows

Deployment

- Full trade life cycle testing support like orders, trades, allocation, confirmation, IOI etc.
- Testing Straight Through Processing

Performance and Scalability

- Consist of Order Generator, Scenario Generator, Regression tester, load tester
- Scenario based testing with the counterparties
- Configuration and testing of Multiple buy side / sell side sessions (multiple session management)
- Production logs replaying and validating for any change
- Performance (load) testing
- Business validation support
- Interactive user test case execution
- Sell side simulation
- Automated testing support

Administration and UI features

- Web-based Session monitoring / Administration
- User friendly interface for creating and sending FIX messages to counterparties and validating results
- UI for loading log, replaying and generating reports

Interface and Integration

- Flexible interfaces for testing with existing systems like OMS
- JMS / TIBCO adaptors for integration testing

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Key Differentiators

- Multi Session test support
- Support all versions of FIX Protocol including 4.4 & 5.0
- Multi Platform support
- Web-based easy configuration and administration module – quicker rollouts
- Interactive test case / scenario creation through GUI
- Buy Side / Sell Side simulation
- Load testing / performance testing support
- Log replaying and result verification
- Test result report generation
- Auto testing support
- Easy to plug-in with existing systems
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX

Product Differentiators

Features	Certify	Market Leader	Others
Administration	Web-based	x	x
FIX Support	All versions	Latest 4.4	4.4
Buy Side / Sell Side Simulation	Supports	Supports	Supports
Performance Testing	Supports on different criteria	Generic Support	Supports
Scenario Testing	Supports	Supports	x
Test Report Generation	GUI for Test report	x	x
Support	Onsite support will be provided	x	x

Technology:

- Certify is 100% Java based engine to enable platform independence
- Platform support for Sun Solaris, HP-UX, AIX, Linux and Windows

About Fixbytes

Fixbytes Technology is a financial product and service delivery organization, with its core focus to deliver end-to-end electronic trading solution (primarily front-office) – broker neutral straight through processing, high performance and high availability platform. The products supports multiple asset classes and used by both buy and sell side institutions including investment banks, hedge funds, asset managers and institutional brokers.

For more detail about the product, please refer to www.fixbytes.com | Email us at: info@fixbytes.com