

HIGHLIGHTS

Eureka provides a light-weight, high performance order management (OM) layer to any trading application needing such functionalities. It can be embedded directly into the trading application itself as a library or can be run as an independent application, connecting to other trading applications and exchange gateways via FIX interface or custom adaptors. This feature is unique comparing to other vendor and in-house solutions where order manager is always tightly coupled with the OMS GUI and cannot be used as an internal, high performance OM layer by other applications.

Eureka is highly multi-threaded to take advantage of today's multi-core servers. Processing of baskets and orders is highly parallel. **Eureka** supports common operations on basket (e.g. merge, amend and cancel), wave (e.g. amend and cancel) order (e.g. amend, cancel and cross) and execution (e.g. correct, bust, match and non-match). Persistence and recovery is optimized for the performance and risk goals of the customer. Synchronous or asynchronous persistence to file / database can be configured and additional customized persistence mechanisms can be developed easily.

Administrators can easily monitor the state of **Eureka** and troubleshoot and correct potential issues on-the-fly. Optionally, traders can use the Fixbytes OMS GUI to access **Eureka**'s full range of functionalities, minimizing the time and effort needed to set up a separate OMS.

Eureka Features

Product Support

- Common trading functionalities for handling basket order and execution
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX
- Flexible order execution and exchange connectivity interfaces supporting standard FIX, as well as on-demand development of custom-specific adaptors
- Special focus on Asia Pacific markets such as TSE, HKSE and ASX
- Multi Platform supports like Sun Solaris, HP-UX, UNIX, Linux and Windows

Deployment

- Runs as a stand-alone order manager application. Together with the FIX adaptors and / or custom adaptors, ensures fast deployment into existing application frameworks
- Used as a library and be embedded into any trading application needing the order management functionality, e.g. DMA application

Performance and Scalability

- Highly multi-threaded to maximize performance - parallel processing of basket and order operations
- Customizable persistence and recovery schemes to achieve the fastest performance with acceptable risk

Administration and UI features

- Direct monitoring and control of internal order book via JMX
- Optional FixBytes order management GUI

Interface and Integration

- Order execution interface with a standard FIX implementation
- Exchange gateway interface with a standard FIX implementation

Eureka 1.0

Order Manager

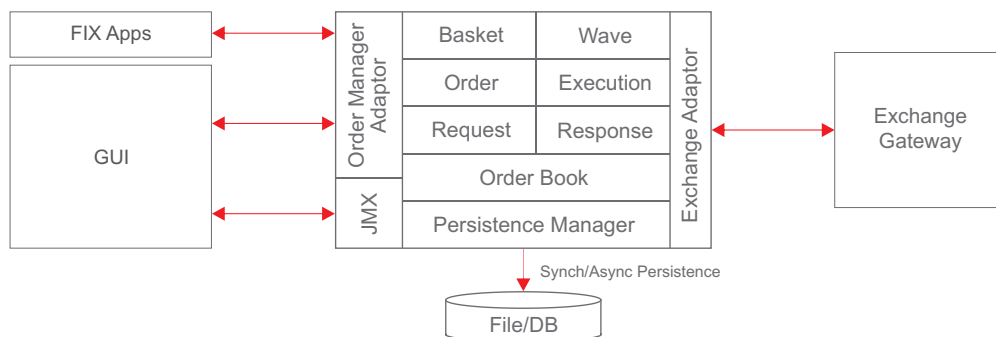
Key Differentiators

- Supports Basket operations such as Create, Amend, Cancel Baskets and Waves and Merge Baskets Support Order and Execution operations such as Create, Slice, Amend, Cancel Orders, Cross Orders, Match, Correct and Bust Executions.
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX
- Deploy as a stand-alone, light-weight order management application or embed directly into any trading application
- Flexible order manager and exchange adaptors for fast integration into existing application environment as well as quick development of proprietary adaptors. Standard FIX adaptors are provided.
- Powerful monitoring and control via JMX, for example internal order book can be manipulated directly at runtime.
- Flexible persistence and recovery mechanisms, e.g. persistence to file, database or according to custom requirements, synchronously for better recovery or asynchronously for performance or both at the same time.
- Parallel processing of baskets and orders to maximize performance
- More cost effective as compared to other commercially available products

Product Differentiators

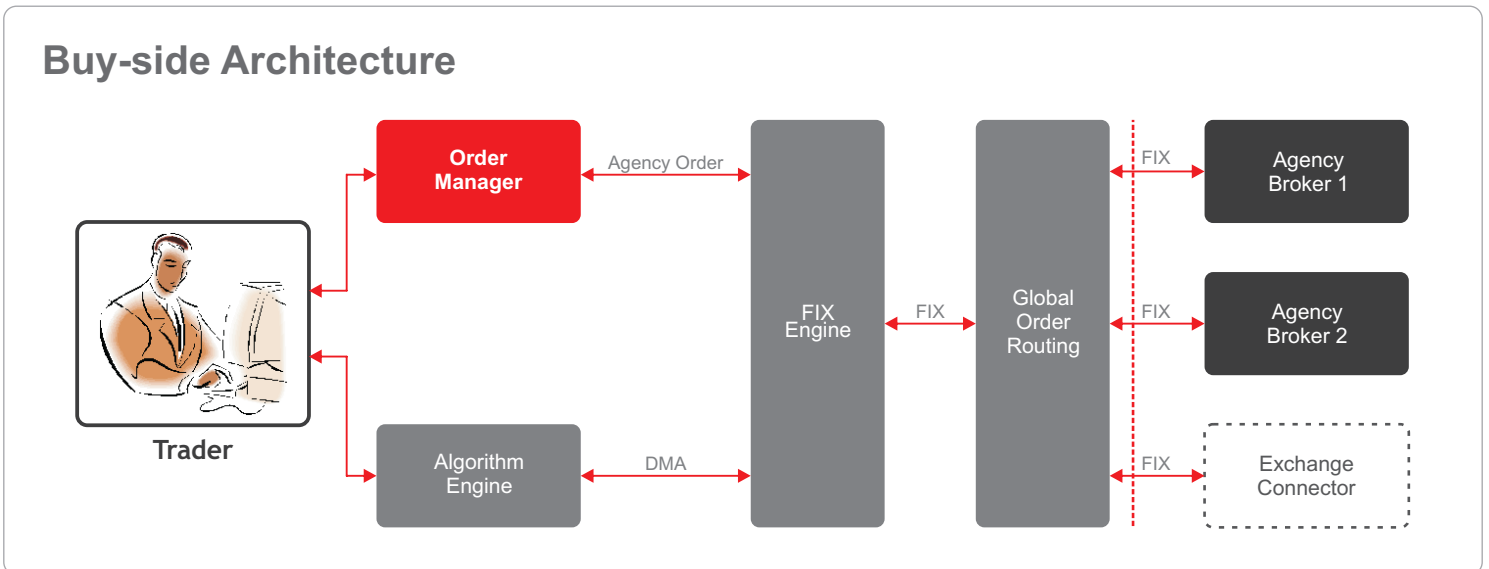
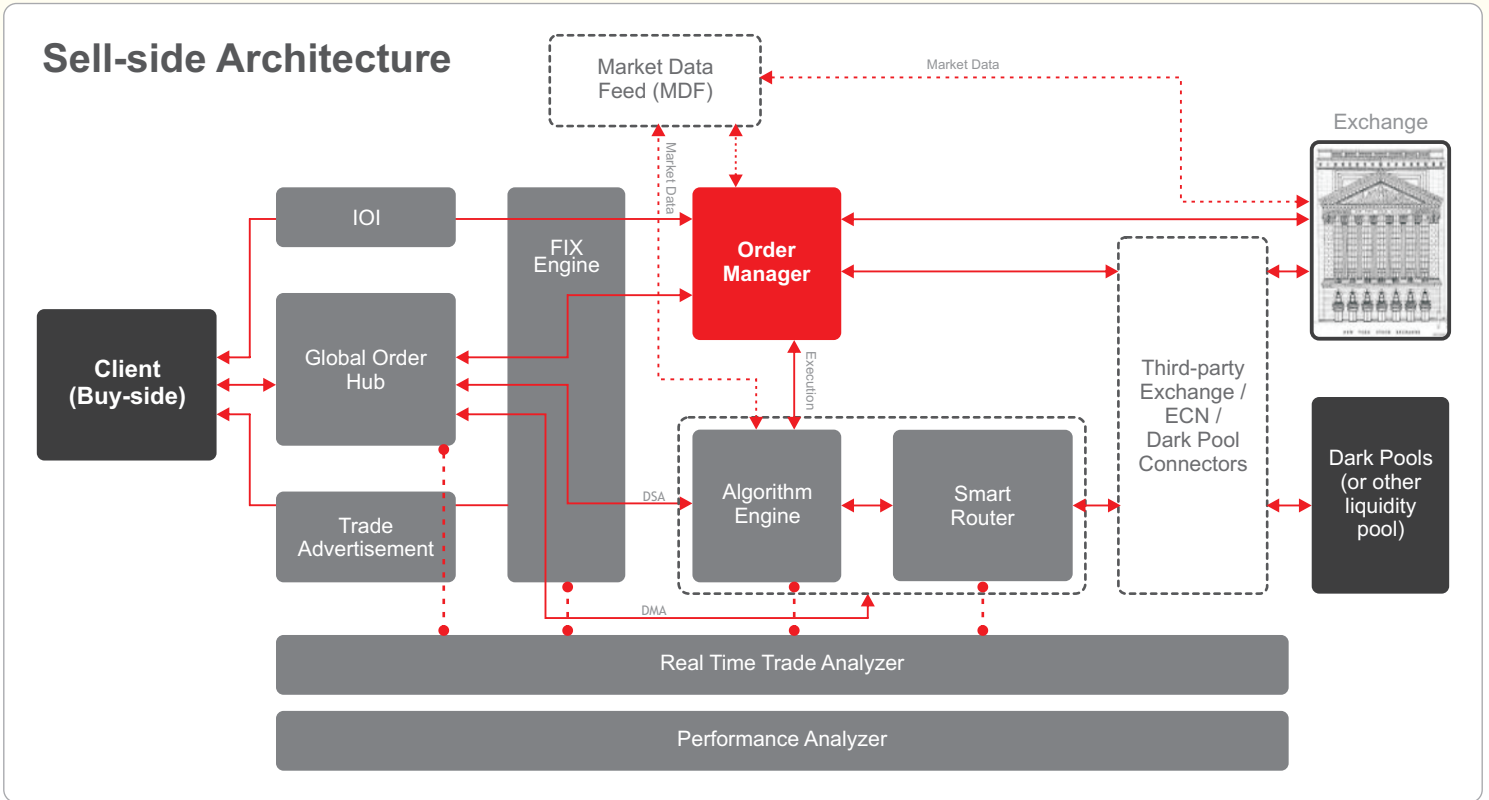
Features	Eureka	Vendor 1	Vendor 2	In-house OMS
Basket and Wave operations	✓	✓	✗	✓
Order slicing and Execution matching	✓	✓	✓	✓
Multi-asset class support	✓	✓	✗	✓
Stand-alone or embedded deployment	✓	✗	✗	✗
FIX and customizable adaptors	✓	✗	✗	✗
Real time state control via JMX	✓	✗	✗	✗
Flexible persistence mechanisms	✓	✗	✗	✗
High performance	✓	✗	✗	✗
Multi-platform support	✓	✓	✗	✗
On-site tech support	✓	✗	✗	✗
Cost effectiveness	✓	✗	✗	✗

Eureka Architecture



Eureka 1.0

Order Manager



Technology:

- **Eureka** 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