

Algo Edge 1.0

Algorithm Trading Engine

HIGHLIGHTS

Algo Edge which falls under the umbrella of Fixbytes Execution Management system (EMS), provides the broker neutral trade services for the high performance Algorithm trading. It will be managed by the financial institutions both on the buy-side and sell-side.

Algo Edge provides a set of high performance, industry-standard strategies such as VWAP, Volume Participation, Implementation Shortfall and Aggressive Short Sell. In addition, strategy behaviours are highly tunable via historical market data, quant models as well as real time market signals. One major feature of **Algo Edge**, which few other competitors offer, is its Custom strategy which dynamically executes a given order using different strategies and parameters, based on pre-defined set of trigger conditions.

Algo Edge is built on cutting edge technologies to achieve high performance, robustness and flexibility. Highly parallel processing (i.e. multi-threading) ensures order execution latency is in milliseconds. Algo Edge is easy to integrate into existing OMS and trading environment. In the unlikely event of a recovery, it's simple, fast (in minutes), reliable (no loss of order state) and user will be able to resume with a single mouse click.

The power of **Algo Edge** is amplified by working together with other Fixbytes trading solutions. For example, together with smart order routing, it seeks and facilitates direct access to multiple sources of liquidity. From a single platform, orders are routed automatically to various points of execution including primary exchanges, dark pools and Alternate Trading Systems (ATS).

Algo Edge Features

Product Support

- High performance strategies including VWAP, Volume Participate, and Implementation Shortfall
- Unique Custom strategy provides almost unlimited, highly configurable ways to execute a given order
- Flexible order execution and market data interfaces support standard FIX and Reuters API, as well as on-demand development of custom-specific adaptors
- Special focus on Asia Pacific markets such as TSE, HKSE and ASX
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX
- Multi Platform supports like Sun Solaris, HP-UX, UNIX, Linux and Windows

Deployment

- Spring based configuration allows for quick customization and deployment

Performance and Scalability

- Highly multi-threaded and event-driven. Optimized for ultra-low latency, averaging millisecond response time
- Capacity can be easily increased by hardware upgrade and / or load-balanced engines
- System recovery is easy, fast and reliable

Administration and UI features

- Web-based GUI allows for complete control on strategy life cycle
- Real time strategy performance monitoring
- Detailed order execution statistics and alerts provide enough debug information, minimizing the need to go into log files

Interface and Integration

- Well-defined interfaces for each critical component ensure easy integration and customization with existing application architecture
- Seamless integration with other Fixbytes components including smart router and order routing hub

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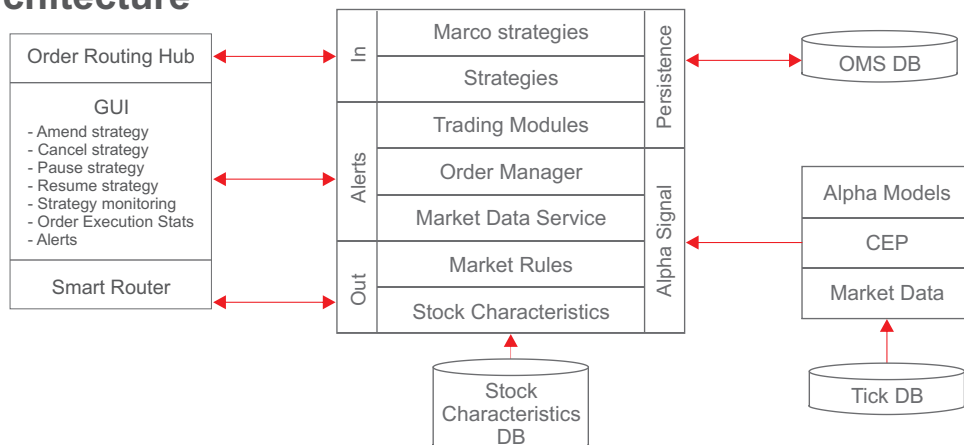
Key Differentiators

- High performance strategies including VWAP, Volume Participate, Implementation Shortfall and Aggressive Short Sell
- Unique Custom strategy provides limitless ways to execute an order using pre-defined market conditions as triggering events. New strategy can be built and modified by user in minutes
- High performance, low latency framework enables strategies to respond to market events before other competitors' algo engines
- Integrate with other Fixbytes trading solutions, e.g. order routing hub, smart router and exchange simulator to provide a complete trading solution, optimized for performance and cost
- Focus on Asia Pacific markets, especially TSE, HKSE and ASX
- Web-based GUI provides unparalleled access including strategy manipulation, recovery, monitoring, debugging and analytics
- Flexible order execution and market data adaptors for fast integration into existing applications as well as quick development of proprietary adaptors
- Support for different range of asset classes e.g. Equities, Futures, Options, Fixed Income and FX
- Cost effectiveness comparing to other commercially available products

Product Differentiators

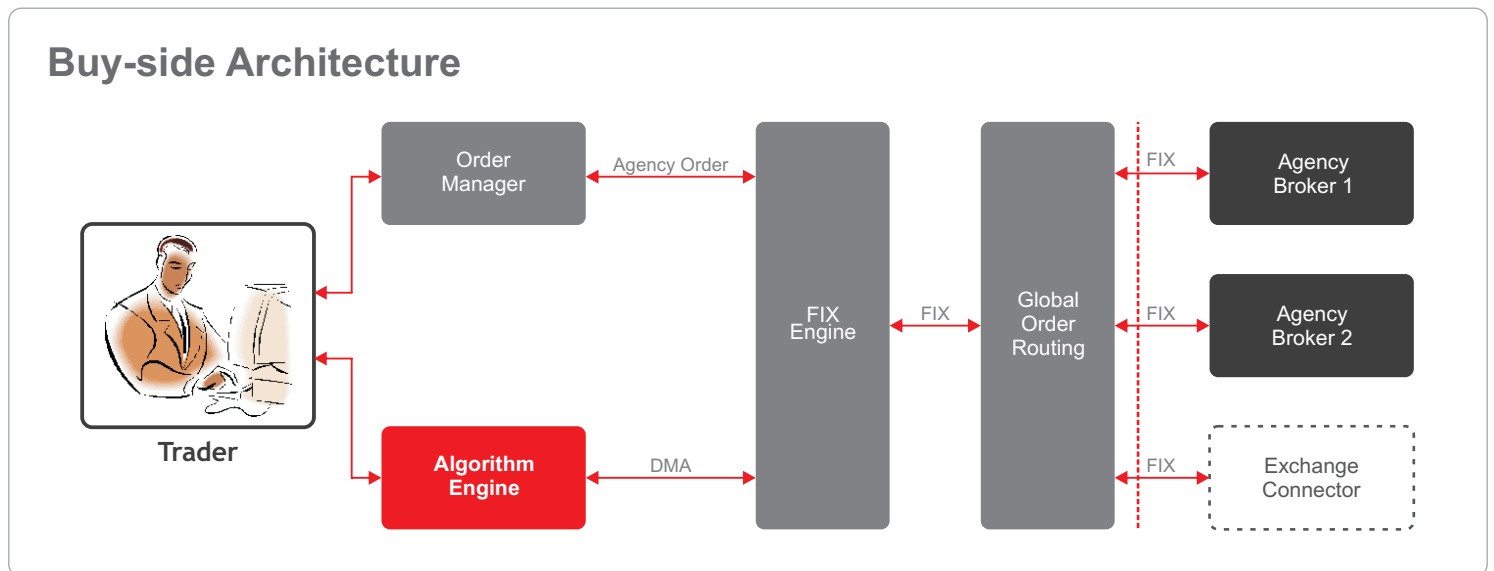
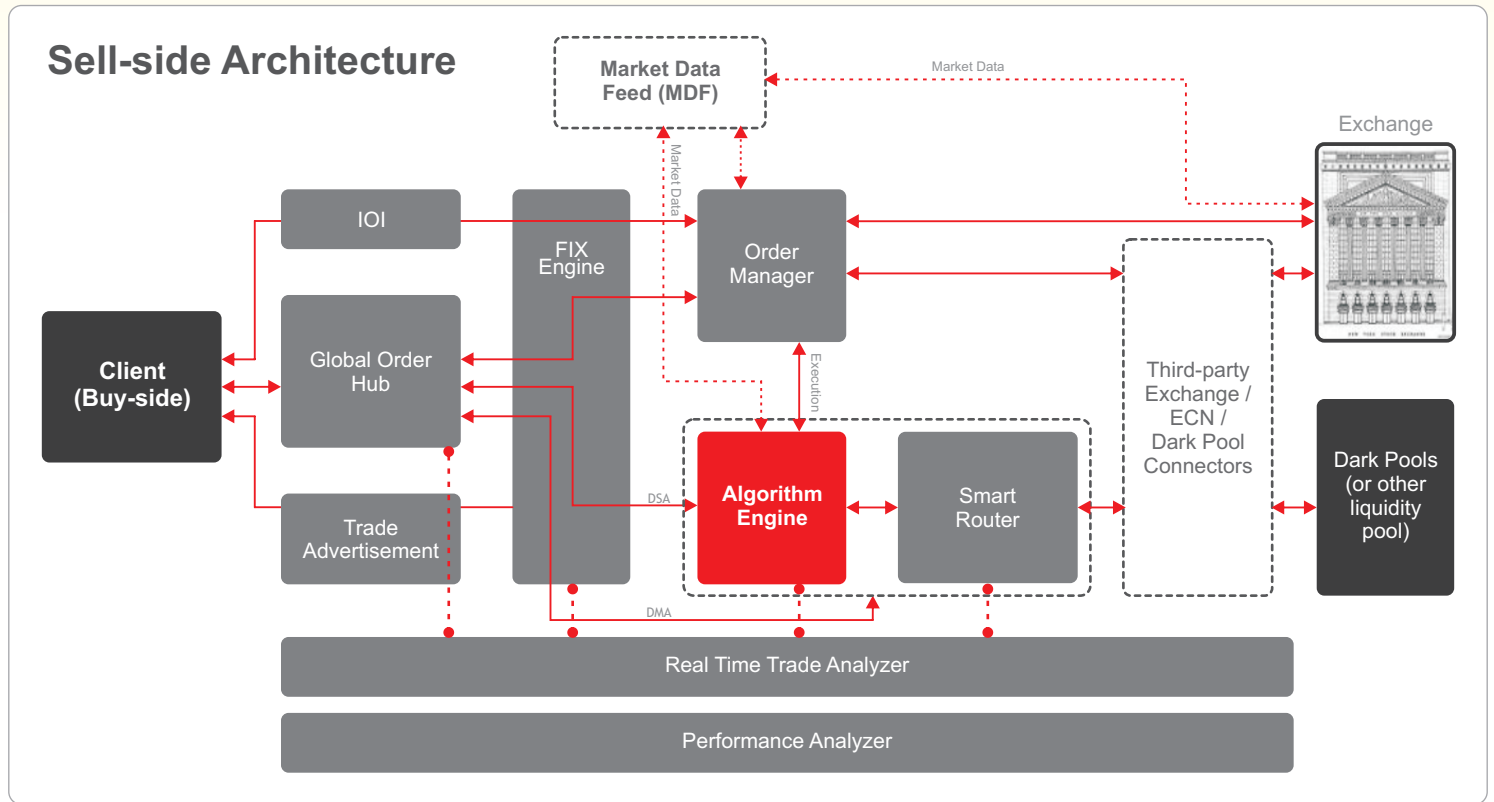
Features	Algo Edge	Market Leader	Other Proprietary Algos
High performance strategies, e.g. VWAP	✓	✓	✓
Custom strategy	✓	✗	✗
High performance, low latency framework	✓	✗	✗
Integration with other trading components to provide a complete trading solution	✓	✗	✗
Asia Pacific market support	✓	✓	✓
Unparalleled access and monitoring via GUI	✓	✗	✓
Standard and customizable adaptors	✓	✓	✓
Multi-platform support	✓	✗	✗
Multi-asset class support	✓	✗	✓
On-site tech support	✓	✗	✓
Cost effectiveness	✓	✗	✗

Algo Edge Architecture



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Algorithm Trading Engine



Technology:

- **Algo Edge** 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 support 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