B2BITS FIX engines are world-recognized solutions, regularly topping in FIX User surveys, installed at hundreds of buy-side and sell-side firms. Each of the B2BITS FIX solutions is designed to address specific customer needs and environments, yet all share common features, enabling us to offer them at much lower prices.

FIX Antenna Java leverages all benefits from the Java world: runs everywhere, natively integrates with standard Java monitoring toolsets, can be used in enterprise environment and web-based solutions.

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Feature	Description
High performance / low latency	Delivers over **25,000** messages per second. Adds up to **24** microseconds' latency on 100 Mbps network with persistence and up to **12** microseconds' latency on 100 Mbps without persistence
100% FIX standard compliance	All versions of FIX protocol are supported: • FIX 4.0-4.4, 5.0, 5.0 SP1, 5.0 SP2 • FIXML 4.1-4.4, 5.0, 5.0 SP1 • FAST 1.1 All asset classes Standard FIX protocol extensions: • User-defined tags • User-defined message types Validation
Rich message composition API	Supports two message composition APIs: • Flat model — simple and fast • Object model — typified message API, which allows working with FIX business objects as with classes and class members
FIX protocol customization	Ability to change standard FIX protocol: • Change tag's "required" attribute • Remove field from set of "defined" fields • Define new message type
FIX protocol conversions	Provides several types of conversions: • Between different versions • Between FIX and FIXML • Auxiliary conversion (e.g. generate reject)
Guaranteed delivery	Fully supports all FIX session level mechanisms, such as heart-beating, sequence number maintenance, automatic reconnect, gap fill, etc. FIX Antenna implementation is based on **store-and-forward** mechanism, which prevents messages from being lost. The **persistent** mode prevents message from being lost even after software failure

Feature	Description
Customizable FIX session level	Provides flexible mechanism for session level customization such as smart sequence number handling, controlled retransmissions, authorization, etc.
Pluggable session level	Develop your own session level machine and replace standard session level simply changing configuration file
High availability	Fully restores its state after failure
FIX routing	Standard routing mechanism based on OnBehalfOf/ DeliverTo is supported
Security	Supports all standard FIX encryptions modes. FIX Antenna provides SSL support either via SSL tunneling or using native built-in SSL support
Remote administration interface	Provides set of monitoring and administration functions. Comes with AdminApplication class, which can be inherited and extended
Industry monitoring standard	Integrate into the existing monitoring solutions via JMX, natively supported by FIX Antenna Java
Small footprint	FIX Antenna has fairly small footprint and no 3rd party lib dependencies and could be easily integrated into the web-based applications
Well packaged	FIX Antenna is delivered with: • Jar files • API Guide • Programmer's Guide with code examples • Set of primitive "quick start" samples • Set of utilities with sources • Benchmark tools with sources • Handy installer
Supported platforms	Supported OS: • **Windows, Linux, Solaris** Supported compilers: • **JDK**

B2BITS FIX engines come at a fixed annual cost. There are NO additional charges, no message fees, no message limits, no charges for each processor, no charge for different operating systems, no charge for high availability, no charge for routing capability, no charge for persistent storage.

FIX Antenna Java