

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 .NET has been designed to provide native support of Microsoft .NET technologies enabling quick and easy integration into any custom .NET application. While enabling all the benefits of Microsoft's .NET framework it retains all the benefits of B2BITS class leading FIX engines.

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Feature	Description
High performance / low latency	Although FIX Antenna .NET is specifically designed to provide native support of Microsoft .NET technologies the performance is still high. Delivers over <b>35,000</b> messages per second. Adds up to <b>50</b> microseconds' latency on 100 Mbps network.  Allows configuring sending/receiving prioritization for session
100% FIX standard compliance	All versions of FIX protocol are supported: <ul style="list-style-type: none"> <li>• FIX 4.0-4.4, 5.0, 5.0 SP1</li> <li>• FIXML 4.1-4.4, 5.0, 5.0 SP1</li> <li>• FAST 1.1</li> </ul> All asset classes Standard FIX protocol extensions: <ul style="list-style-type: none"> <li>• User-defined tags</li> <li>• User-defined message types</li> </ul> Validation
Rich message composition API	Supports two message composition APIs: <ul style="list-style-type: none"> <li>• Flat model — simple and fast</li> <li>• Object model — typified message API, which allows working with FIX business objects as with classes and class members</li> </ul>
FIX protocol customization	Ability to change standard FIX protocol: <ul style="list-style-type: none"> <li>• Change tag's "required" attribute</li> <li>• Remove field from set of "defined" fields</li> <li>• Define new message type</li> </ul>
FIX protocol conversions	Provides several types of conversions: <ul style="list-style-type: none"> <li>• Between different versions</li> <li>• Between FIX and FIXML</li> <li>• Auxiliary conversion (e.g. generate reject)</li> </ul>
Customizable FIX session level	Provides flexible mechanism for session level customization such as smart sequence number handling, controlled retransmissions, authorization, etc.

Feature	Description
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 <b>store-and-forward</b> mechanism, which prevents messages from being lost. The <b>persistent</b> mode prevents message from being lost even after software failure
Rejecting vs. later delivery	Each FIX session individually can be configured for later delivery mode or for rejecting mode. Rejecting mode allows specifying message time-to-live, after which message is rejected
High availability	Fully restores its state after failure
Back-up connections	Each FIX session can be configured to have back-up connection parameters; automatic and manual switches are supported
FIX routing	Standard routing mechanism based on OnBehalfOf/DeliverTo is supported
Market Data	Ready for Market Data distribution: <ul style="list-style-type: none"> <li>• Transient session with extremely low latency and high throughput</li> <li>• FAST</li> </ul>
Security	Supports all standard FIX encryptions modes. FIX Antenna provides SSL support either via <b>SSL tunneling</b> or using native <b>built-in SSL</b> support
Remote administration interface	Provides set of monitoring and administration functions. Comes with AdminApplication class, which can be inherited and extended
Well packaged	FIX Antenna is delivered with: <ul style="list-style-type: none"> <li>• Precompiled binaries for chosen platform</li> <li>• API Guide</li> <li>• Programmer's Guide with code examples</li> <li>• Set of primitive "quick start" samples</li> <li>• Set of utilities with sources</li> <li>• Benchmark tools with sources</li> <li>• Handy installer</li> </ul>
Supported platforms	Supported OS: <ul style="list-style-type: none"> <li>• <b>Windows</b></li> </ul> Supported compilers: <ul style="list-style-type: none"> <li>• <b>MS Visual Studio 2003/2005/2008</b></li> </ul>

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.