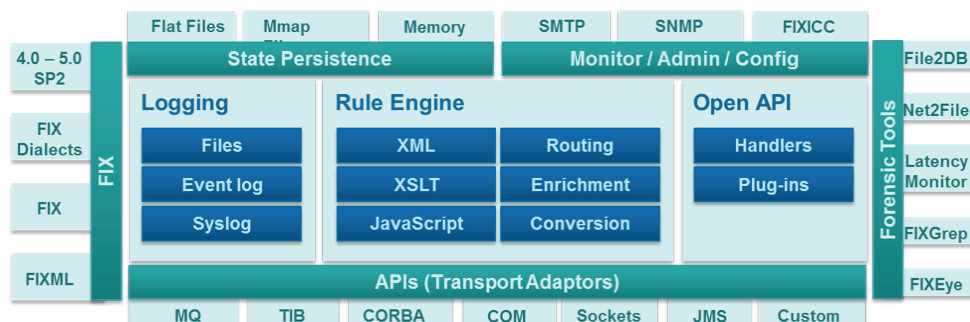


# FIX Edge

FIXEdge is a C++ based application server providing FIX connectivity along with intelligent message transformation and routing for standalone client applications via one of multiple transport protocols (e.g. Simple Sockets, TIBCO, JMS, HTTPs, Solace) employing transport adaptors. The server has extendible architecture to add trading protocols. FIXEdge performance profile is suitable for the needs of all clients from individual and small brokerages up to and including large sell-side institutions and large volume traders.

**FIXEDGE is proven to be perfect foundation for such appliances as:** Exchange Connectivity Gateway, Smart Router, Trade Capture, Trade Reporting and Market Data Servers.

It is designed to be as easy as possible to install and is equipped with rich UI assuring ease of configuration, administration and real-time monitoring of both sessions and trading information flows.



FIXEDGE is pre-configured for and certified with multiple exchanges, including CME, ICE, INET and many others.

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Feature	Description
High throughput/low latency	<ul style="list-style-type: none"> <li>• FIX Edge leverages FIX Antenna C++ Engine performance</li> <li>• <i>Throughput</i>: <ul style="list-style-type: none"> <li>- Processes over <b>60,000</b> messages per second and is benchmarked at <b>30,000</b> messages per second across <b>200</b> sessions</li> <li>- In transient mode can process over <b>115,000</b> messages per second</li> </ul> </li> <li>• <i>Latency</i>: adds up to <ul style="list-style-type: none"> <li>- <b>22</b> microseconds latency on 100 Mbps network with persistence</li> <li>- <b>14</b> microseconds latency on 100 Mbps network without persistence</li> </ul> </li> </ul>
Supports standard FIX	<ul style="list-style-type: none"> <li>• 100% FIX standard compliance (FIX 4.0 – 5.0 SP2)</li> <li>• FAST 1.1, 2.0</li> <li>• Customizable FIX protocol enabling user-defined FIX dialect in a friendly XML format (e.g. extra fields or messages, change “required” attribute, etc.)</li> </ul>
Session management	<ul style="list-style-type: none"> <li>• Ability to configure list of FIX sessions</li> <li>• Ability to schedule start and termination time server-wide or for each session</li> <li>• Multiple session management <ul style="list-style-type: none"> <li>- Supports up to 200 concurrent sessions on a single instance on recommended hardware</li> <li>- Ability to configure each session separately (including FIX Dialect)</li> </ul> </li> </ul>
Delivery modes	<ul style="list-style-type: none"> <li>• <i>Guaranteed delivery</i> <ul style="list-style-type: none"> <li>- Relies on the store and forward technique</li> <li>- Flat files are used for persistence to achieve maximum performance</li> </ul> </li> <li>• <i>Later delivery mode</i> allows unsent messages to be stored in queue and delivered later when connection is re-established</li> <li>• <i>Rejecting mode</i> allows rejection of messages, which cannot be sent during some reasonable time (customizable)</li> </ul>
Highly customizable FIX session level	<ul style="list-style-type: none"> <li>• Different modes of handling sequence number during logon and reconnect</li> <li>• Intraday logout tolerance</li> <li>• Custom Logon message</li> <li>• Force sequence number reset on logon</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Standard FIX authorization via username and password fields in Logon message</li> <li>• FIX encryption to work in non-private networks: DES and PGP-DES-MD5 schemas</li> <li>• SSL</li> <li>• Auto-accept incoming sessions (to simplify development and testing)</li> <li>• Auto-decline non pre-configured sessions</li> </ul>
Reliability & performance	<ul style="list-style-type: none"> <li>• Supports transient sessions with no persistence, which significantly increases performance giving up recovery</li> </ul>
Performance tuning	<ul style="list-style-type: none"> <li>• Ability to enable or disable Nagle’s algorithm to minimize latency or maximize throughput</li> <li>• Ability to configure (or turn off) the number of messages to be joined in a bunch before sending</li> <li>• Ability to dedicate threads for session for sending and receiving data, to minimize overhead on context switching</li> </ul>
Message routing and transformation	<ul style="list-style-type: none"> <li>• Built-in powerful rule engine to modify and route FIX messages <ul style="list-style-type: none"> <li>- Add, change, remove field</li> <li>- Smart event handling: control session creation, rules failure, non-routed messages, etc.</li> <li>- Logical operations with include/exclude conditions</li> <li>- Convert between FIX versions and/or FIXML</li> </ul> </li> </ul>
Monitoring and administration	<ul style="list-style-type: none"> <li>• Built-in remote monitoring and administrative interface for sessions monitoring and management</li> <li>• Rich monitoring and administration GUI out of the box</li> </ul>
High availability	<ul style="list-style-type: none"> <li>• Ready to work in cluster</li> </ul>
Supported OS	<ul style="list-style-type: none"> <li>• Windows / Linux / Solaris (32- and 64-bit)</li> </ul>
Packaging	<p>FIXEdge is supplied as an installation package:</p> <ul style="list-style-type: none"> <li>• Binaries (executable and libraries)</li> <li>• Scripts to register/unregister/start/stop FIXEdge as service/daemon</li> <li>• Default configuration files</li> <li>• FIXICC, a monitoring and administration GUI</li> <li>• FIX Eye, smart logs analyzer</li> </ul>