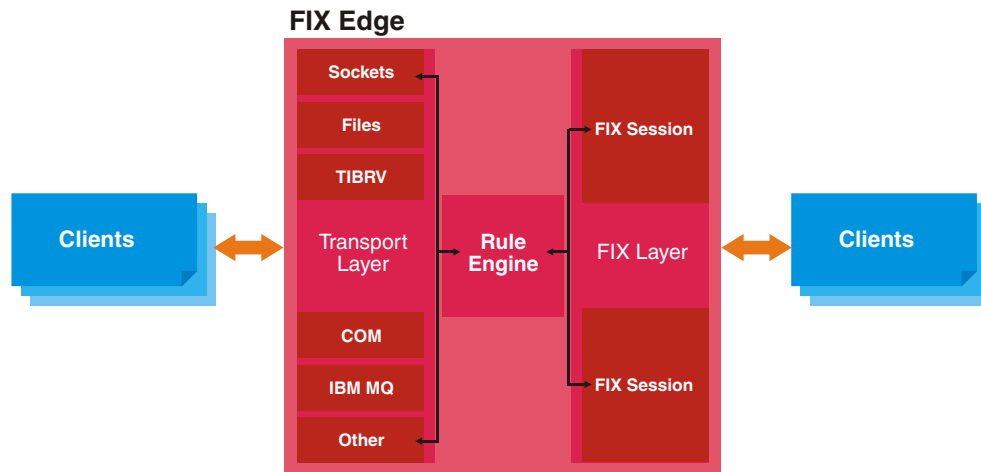# FIX Edge

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FIX Edge is a total connectivity solution with fully integrated interfaces to markets and clearing organizations. FIX Edge is not just a router; it is rather a FIX application server with a rich set of built-in features and open pluggable interfaces.

FIX Edge is built on top of the fastest in the industry FIX Antenna C++ Engine leveraging its features and performance.

The server product line FIX Edge provides the highest level of extensibility and performance. FIX Edge may be deployed in the most demanding environments including distribution and processing of market data.

EPAM Systems, Inc
41 University Drive, Suite 202
Newtown, PA 18940

US: +1 (267) 759-9000
UK: +44 (0) 207-758-9830
Germany: +49 (0) 69-3085-5074
Russia: +7 (495) 730-6360
Hungary: +36 (1) 327-7400
Sweden: +46 (73) 403-6332
e: sales@epam.com
w: www.epam.com,
    www.b2bits.com

FIX Edge

Feature	Description
High Performance / low latency	FIX Edge leverages FIX Antenna C++ Engine performance
	The engine has been benchmarked at **30,000** messages per second across 200 sessions
	FIX Antenna C++ adds up to **25** microseconds' latency on 100 Mbps network
	FIX Antenna C++ allows configuring sending/receiving prioritization for session
	In transient mode FIX Antenna C++ can deliver over **115,000** messages per second
100% FIX standard compliance	All versions of FIX protocol are supported: • FIX 4.0-4.4, 5.0, 5.0 SP1 • 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

FIX Edge
is designed to be
easy to install,
configure,
administrate
and monitor.

Feature	Description
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
Guaranteed delivery	Fully supports all FIX session level mechanisms, such as heart-beating, sequence number maintenance, automatic reconnect, gap fill, etc. Implementation is based on **store-and-forward** mechanism, which prevents messages from being lost. The **persistent** mode prevent message from being lost even after software failure
Customizable FIX session level	Provides flexible mechanism for session level customization such as smart sequence number handling, controlled retransmissions, authorization, etc.
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
Back-up connections	Each FIX session can be configured to have back-up connection parameters; automatic and manual switches are supported
Security	Supports all standard FIX encryptions modes. FIX Antenna provides SSL support either via **SSL tunneling** or using native **built-in SSL** support
FIX Connectivity	FIX Edge comes with set of industry accepted FIX dialects. The list of counter-parties supported out-of-the-box is available on request
Other transports	**Simple Sockets, TIBRV, COM/DCOM, CORBA, IBM MQ, Files, Named Pipes**
Rule engine	Comes with built-in rule engine. Rules are written using XML scripting language and applied to each passing message. With these rules message can be transformed and routed. It is also possible to use XSLT and JavaScript inside the rules
High availability	Ready to work in HA environment
Custom transport	Provides interface to plug-in custom transports
Custom business logic	Rule engine provides interface to plug-in user-defined actions
Remote administration	**FIX Edge Control Center** is a web-based administration, monitoring and configuration tool
Monitoring	Service and sessions states are reported via SNMP and SMTP
Supported platforms	Supported OS: • **Windows, Linux**
Well packaged	FIX Edge is delivered with: • Binaries • Documentation • Default configuration • Default routing rules • SNMP adapter • SMTP adapter

FIX Edge