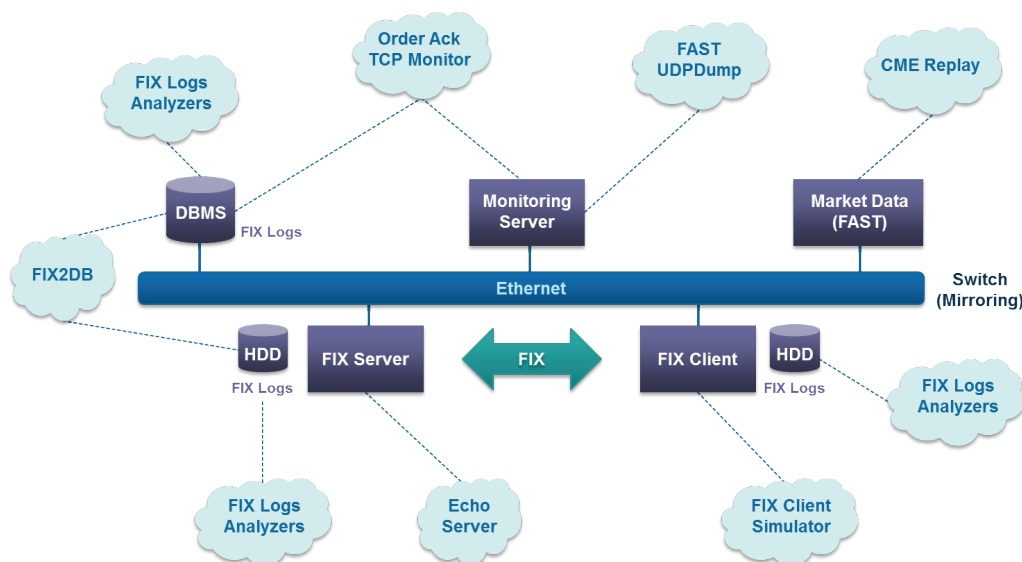


FIX

Operational Tools

EPAM has many years of experience in the successful development and support of FIX based applications including the development of solutions for exchanges, investment banks and other major financial institutions. During this period EPAM has developed its own eco-system of FIX tools and applications, these are all tried and tested in real world installations. The eco-system is based on performance, reliability, stability and efficiency of production operations. This eco-system demonstrates EPAM's depth of expertise, these tools and the expertise behind them can all be leveraged for the advantage of our clients.



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FIX Operational Tools

Feature	Description
FIX Log Analyzers	<ul style="list-style-type: none">• Extract FIX messages from arbitrary file• Free form text search in FIX files• Excel-like tables to show, filter and search for FIX messages• Order and session back trace• Real-time monitoring and alerting• Scripting• and many more...
FIX Client Simulator	<ul style="list-style-type: none">• Create sessions for initiators and acceptors• Send and receive messages• Send message batches• Load messages from file, modify and send them
EchoServer	<ul style="list-style-type: none">• Create session acceptor• Echo back all received messages
FAST UDPDump	<ul style="list-style-type: none">• Subscribes to UDP group and stores all FAST traffic to the file
CMEReplay	<ul style="list-style-type: none">• Takes sequence of FIX messages for incremental channel• Generates data for MD recovery channel• Encodes and replays incremental channel data providing access to the MD recovery and TCP replay• Supports feeds A/B; configurable timing; CME style
FIX2DB	<ul style="list-style-type: none">• Extracts FIX messages from file and stored them to the DB• Monitors file and extract newly appeared messages• Uses JDBC, can work with any RDBS
FIXTCPDump	<ul style="list-style-type: none">• Listen TCP traffic (using sniffer, pcap)• Extract FIX messages from the flow• Filter messages by predefined criteria and store to file
FIXLogsReplay	<ul style="list-style-type: none">• Establish FIX connection• Read messages from file and send them one-by-one to the FIX session as is• Automatically adjust such message fields as SendingTime, CheckSum and some other before sending
OrderAckTCPMonitor	<ul style="list-style-type: none">• Listen TCP traffic (using sniffer, pcap)• Extract FIX New Order Single (D) and Execution Report (8) messages from the flow• Match order and execution by ClOrdID, calculate delay (acknowledge time) and store value to file