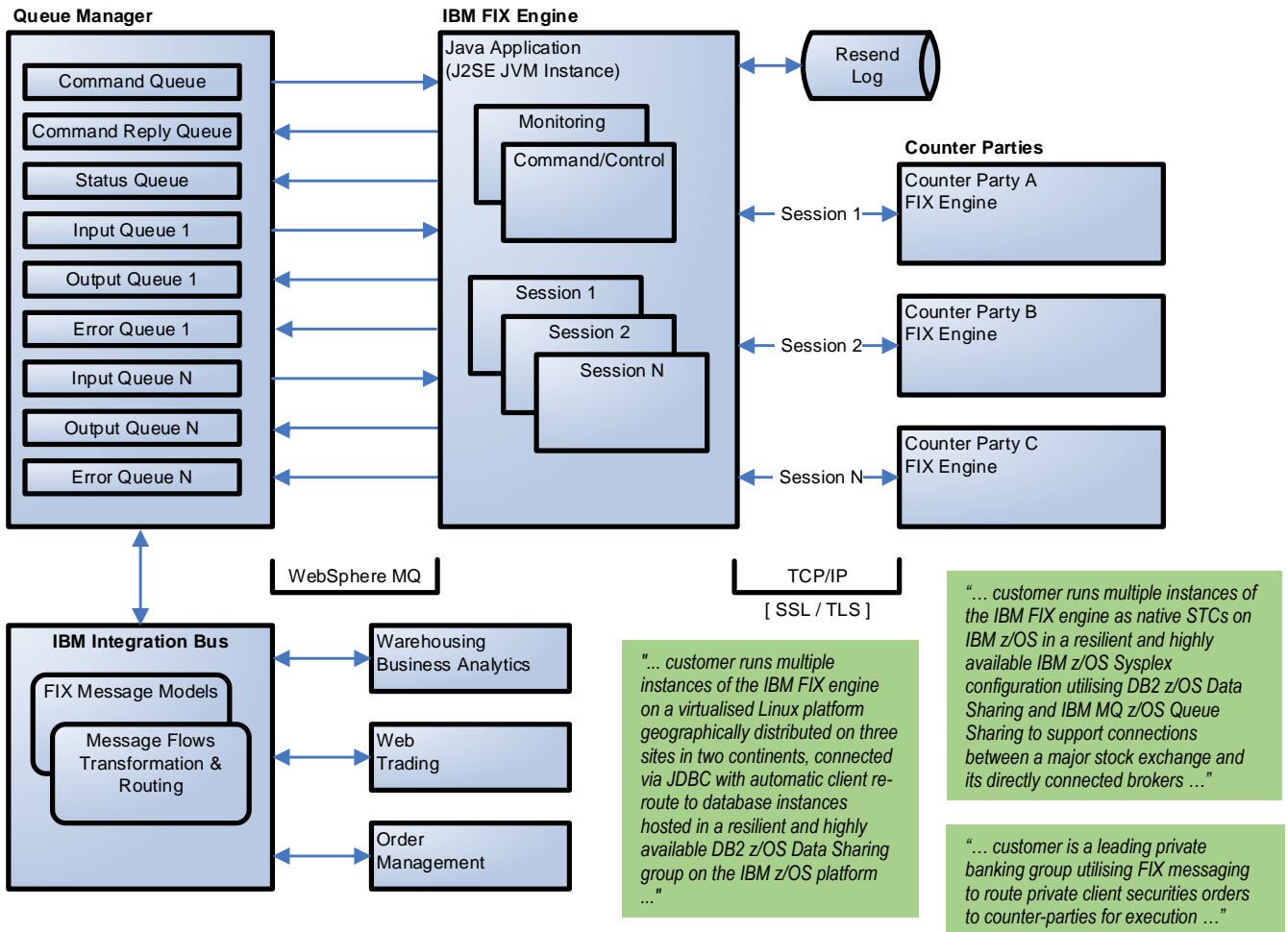


IBM Integration Bus Solution for Financial Information Exchange (FIX) Messaging

IBM Integration Bus SupportPac IA0Q



The IBM® Integration Bus Solution for Financial Information Exchange (FIX) Messaging provides a standalone J2SE FIX engine bridging between IBM MQ and TCP/IP, implements the FIX protocol specification and delivers FIX message models (message sets) to enable the parsing, processing and writing of FIX format messages in IBM Integration Bus. The solution supports FIX 4.0 through 4.4, FIX 5.0 and FIXT 1.1.



Highlights

- Enables integration of FIX messaging with other parts of the enterprise such as order management, back office and legacy systems, warehousing and analytics.
- Used with IBM MQ and optionally IBM Integration Bus to meet FIX message routing and transformation requirements.
- Flexible configuration supporting deployment into highly available enterprise middleware and database management system topologies.
- Delivers a standalone J2SE based FIX engine, bridging FIX message traffic between FIX protocol on TCP/IP and IBM MQ.
- Delivers FIX message models (message sets) for IBM Integration Bus, enabling parsing, processing and writing of FIX messages in the integration broker.
- Support for secure features such as RACF on IBM z/OS, TLS(/SSL), enterprise access control systems, encryption of configuration passwords.
- Supports protocol and message formats for FIX 4.0 through 4.4, FIX 5.0 and FIXT 1.1.
- On site services available for installation, education and tailoring of the solution to customer needs.
- Support, maintenance and subscription provided as an ongoing annualised service.
- IBM can provide a highly available solution comprising entirely of IBM supplied and supported components covering hardware, operating systems, database, middleware, integration broker and FIX messaging components.

Overview

The primary envisaged use for the IBM Integration Bus Solution for Financial Information Exchange (FIX) Messaging is to enable the flow of FIX message traffic into and out of the enterprise service bus, providing support for the integration of FIX messaging with other systems and applications. It allows the exposure of FIX message data to systems and applications which do not support FIX message formats or FIX message exchange protocol.

The FIX specification defines the interfaces required for the interaction between trading parties. The specification comprises *application level* details, defining the business messages that can be sent between counter-parties, and *administrative level* details, defining low level protocol operation.

IBM FIX Engine

A FIX engine is required to handle the *administrative level* functions of the FIX specification, that is, the functions required to establish and manage a session between two communicating parties. The IBM FIX Engine implements the *administrative level* requirements of the FIX protocol, dealing with TCP/IP connectivity, session management, message exchange, encryption, and related requirements.

The IBM FIX Engine is a standalone standard J2SE application which allows FIX messages to flow bi-directionally between a FIX enabled counter-party, through the IBM FIX Engine and into the enterprise service bus using IBM MQ. It serves as a bridge (“adapter”) between FIX protocol and IBM MQ.

IBM FIX Message Sets

FIX message models (message sets) are provided for use with IBM Integration Bus. These define *application level* and *administrative level* message formats which allow FIX messages to be parsed, processed and written within integration broker message flows.

Technical Advantages

- IBM FIX Engine

- IBM FIX Engine platform support for IBM AIX, IBM z/OS, Linux and Windows with other platforms considered on request.
- Configurable with shared queues and data sharing on IBM z/OS Sysplex to provide resilient highly available operating environment.
- Configurable with multi-instance queue managers, JDBC and DB2 automatic client re-route on distributed platforms to provide a resilient highly available operating environment.
- Supports TLS(/SSL) for secure transport layer communications between counter-parties.
- Supports encryption of passwords in configuration files and integration with enterprise credential management solutions.
- Supports integration with RACF for SSL/TLS certificate management on IBM z/OS.
- Supports multiple, flexible “end-of-day” processing and housekeeping options.
- Intelligent implementation eliminates the need for 2PC (XA or RRS) configuration simplifying deployment.

Technical Advantages

- IBM FIX Message Sets

- IBM FIX message models (message sets) are native to IBM Integration Bus. These are available/supported on all platforms supported by these products.
- Messages are parsed into an easy to manipulate logical element hierarchy, the integration broker common message model.
- Removes the time intensive job of defining and maintaining message models in accordance with the published FIX specifications.



IBM Ireland Development Laboratory
IBM Watson FSS
Building 6
IBM Technology Campus
Mulhuddart
Dublin 15
Ireland

E-mail: dubadsup@ie.ibm.com

The IBM home page can be found at ibm.com

* IBM is a registered trademark of International Business Machines Corporation.

Other company, product and service names may be trademarks, or service marks of others.

References in this publication to IBM products, programs or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program or service is not intended to imply that only IBM's product, program or service may be used. Any functionally equivalent product, program or service may be used instead.

This publication is for general guidance only.

© Copyright IBM Corporation 2008 - 2017