



# The Value of JBoss Messaging Messaging is the core of a Service Orientated Architecture (SOA) Loosely couples Enterprise Applications Publisher does not rely on the Subscriber Subscriber does not rely on the Publisher Use PubSub rather than PTP for increased flexibility in the future. JBoss Messaging is the Message Oriented Middleware (MOM) acting as a broker necessary to implement an Enterprise Service Bus (ESB)



# Messaging Types - Point-to-Point

- A point-to-point (PTP) application is built using message queues, senders, and receivers.
- Each message has only one receiver.
- A sender and a receiver of a message have no timing dependencies.
- The receiver can fetch the message whether or not it was running when the client sent the message.
- The receiver acknowledges the successful processing of a











Invocation Layer
<ul> <li>Handles the communication protocol with clients to send and receive messages</li> <li>Unified Invocation Layer version 2 (UIL2 IL)         <ul> <li>A multiplexing layer that creates 2 virtual sockets over a single physical to provide bidirectional communication</li> <li>Java Virtual Machine (JVM IL)                 <ul> <li>Eliminates the TCP/IP overhead when the client resides in the same JVM as the server</li> <li>HTTP (HTTP IL)</li></ul></li></ul></li></ul>
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2

### Persistence Manager

- Stores messages when marked as persistent
- Utilizes a JDBC data source
- Has a low memory overhead
- Highly integrated with the Message Cache

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## Why Isn't JBoss Messaging enterprise-class

- The short (and only) answer is HSQLDB
- HSQLDB is a great and compact little database that actually inspired the EnterpriseDB compatibility idea.
- Its got some pretty decent ANSI & Defacto compatability.
- It falls down under heavy load and/or with more than 1 GB of data.

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