



TIBCO Enterprise Message Service Overview

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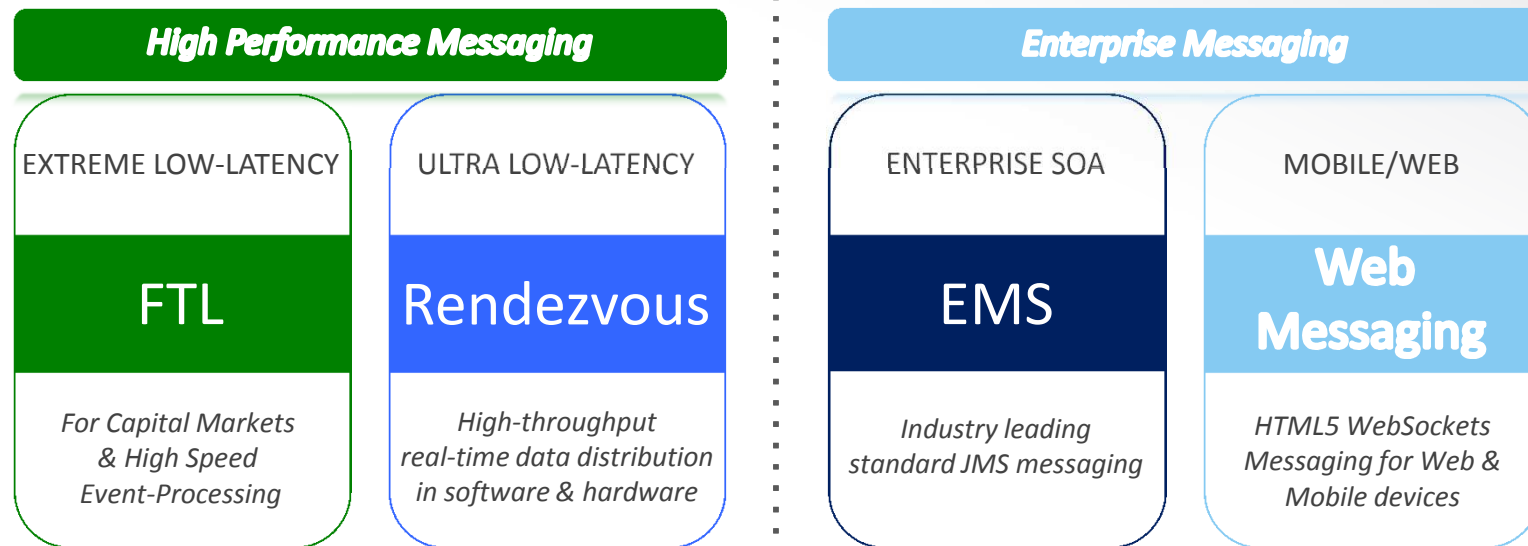
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Market Demand for Messaging

- TIBCO is seeing two unique areas of messaging
 - High Speed / Ultra Low Latency Messaging for data distribution and high performance applications
 - Enterprise Wide / Standard-based Messaging for front to back office integration
- Requirement for direct interoperability and integration between the two areas

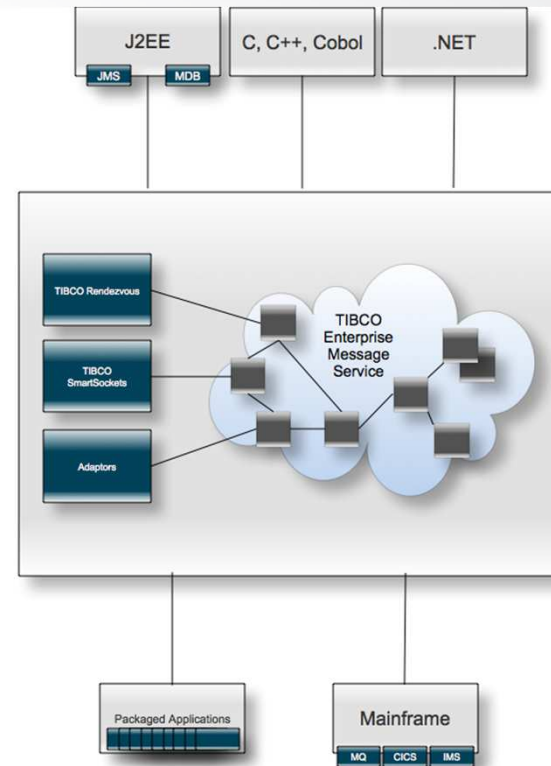
TIBCO's Messaging Portfolio



{ 20+ YEARS OF LEADERSHIP AND INNOVATION - NATIVE INTEGRATION ACROSS THE PORTFOLIO }

TIBCO Enterprise Message Service

- Leading J2EE messaging Solution
 - JMS (Java Message Service) 1.1
 - Message driven beans (MDB)
- Native Support for C based applications
- Native Messaging for .NET
 - Fully managed C#
- Integrated TIBCO backbone
- Proven application adapters
 - IBM MQ, Siebel, SAP, etc...
- Broad mainframe support and connectivity
 - Native C and COBOL client support
 - Seamless CICS, IMS support
 - Z Linux support

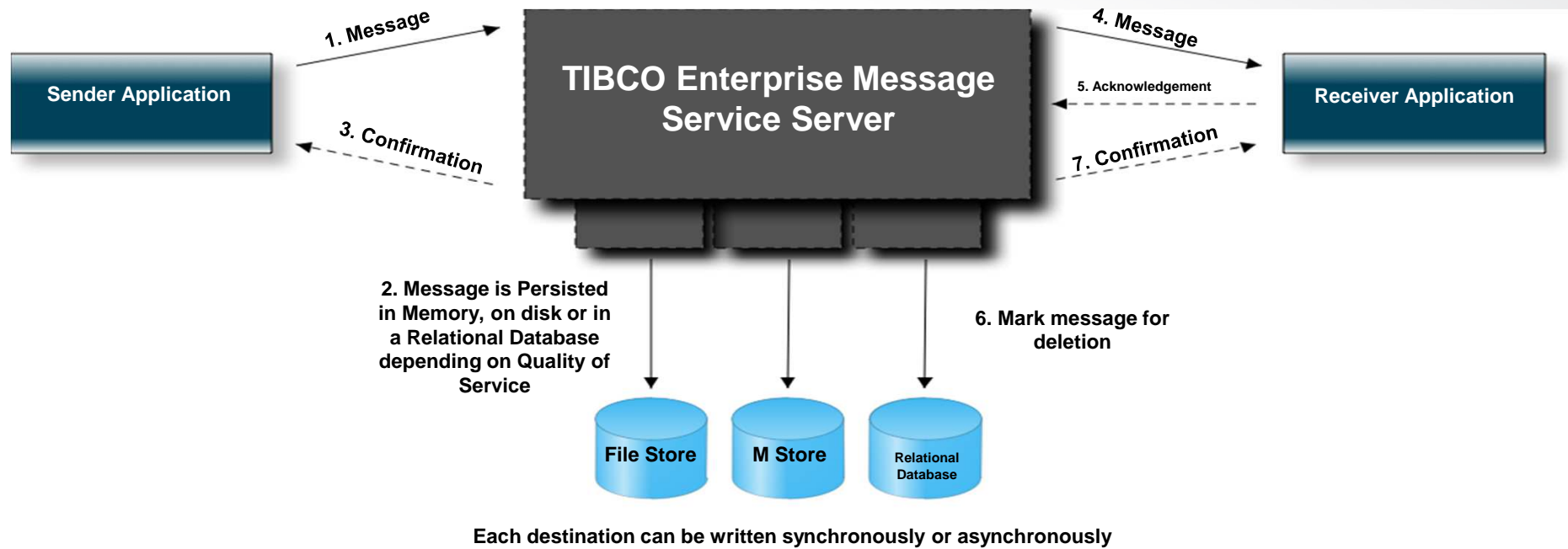


Providing Multiple Levels of Delivery Semantics

- **Complete delivery semantics**
 - Publish-subscribe and queuing support
 - Reliable (TCP and Multicast), guaranteed, local transactional and distributed transactional QOS
 - Synchronous and asynchronous persistence
- **Optimized use of network resources**
 - Network optimizations for LAN versus WAN routing
 - Rules based (selectors) for routing based on business requirements
- **Enhanced service quality and stability**
 - Built in configurable flow control
 - Built in message expiration functionality
 - Administrative removal of messages
- **Bridging**
 - Forward messages from a queue / topic to one or multiple queues / topics

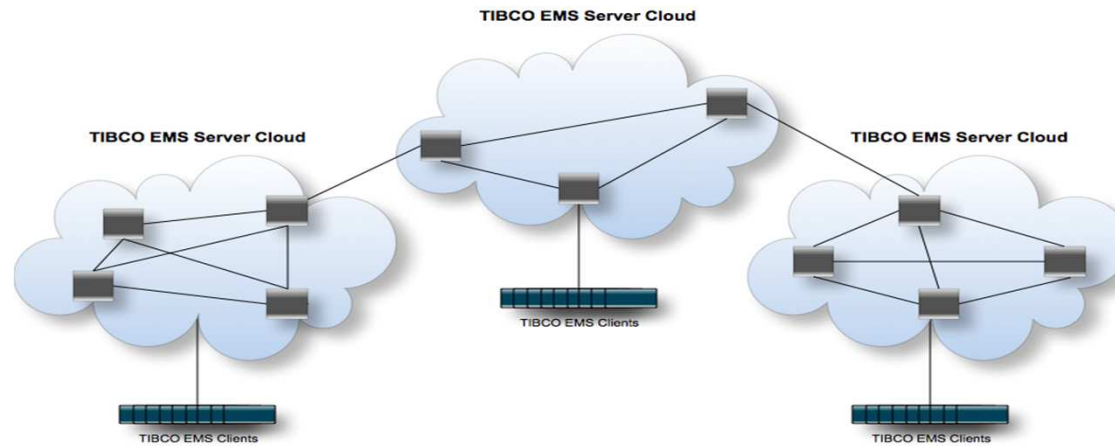


TIBCO Enterprise Message Service Delivery Semantics



TIBCO Enterprise Message Service Routing

- **Single-hop Routing Zones (Local Routing)**
 - A Single-hop zone restricts message forwarding to only one server hop away from the publishing client's server
- **Multi-hop Routing Zones (Enterprise/Wan Routing)**
 - A Multi-hop zone allows all topic messages to flow to all servers connected within the multi-hop zone

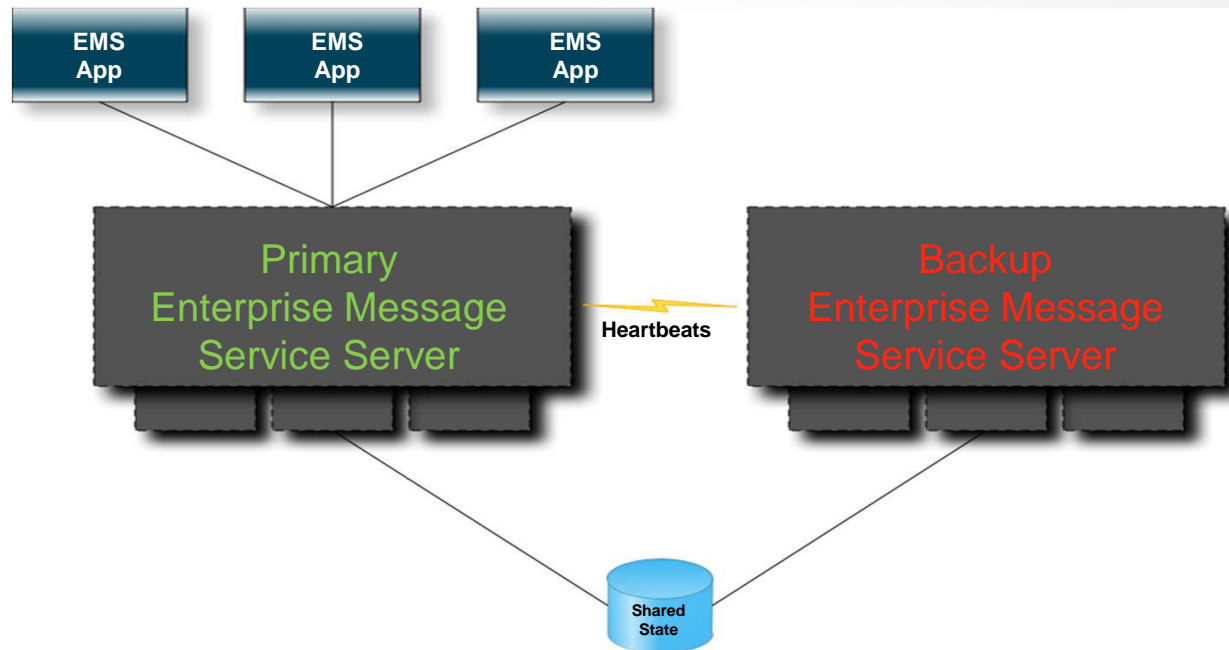


Providing the Broadest Security

- **Server-based authentication and authorization**
 - Customizable authentication and authorization provide through JAAS/JSSE
- **SSL support for connections**
 - Client to Server connections
 - Server to Server connections
 - Uses OpenSSL, JSSE or Entrust
- **Support for certificates**
 - PEM, DER, PKCS7, PKCS8, PKCS12 and Java Key Stone
- **FIPS 140-2 Compliant**

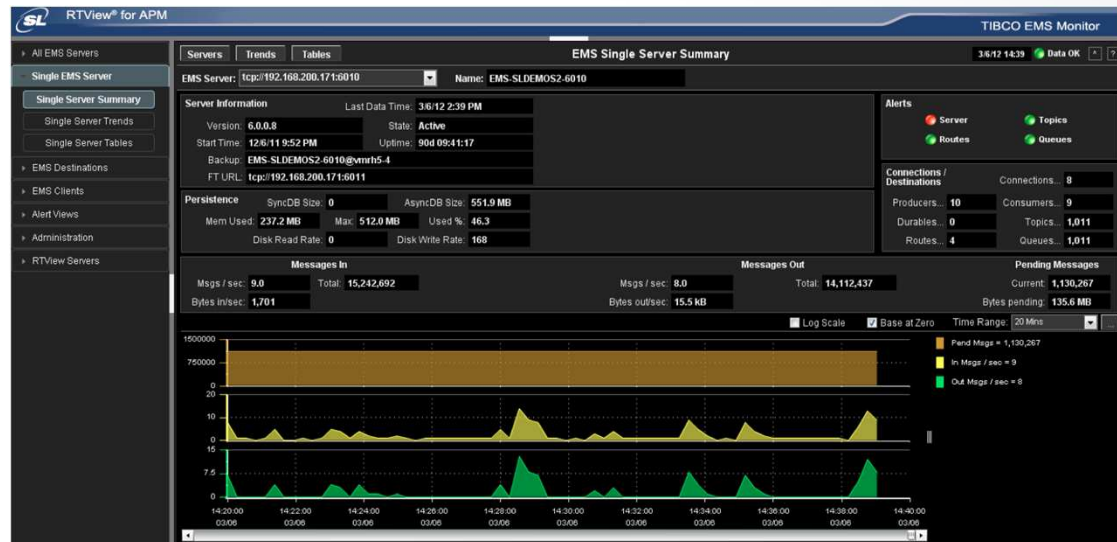


TIBCO Enterprise Message Service Fault Tolerance



TIBCO Enterprise Message Service Monitoring & Management

- TIBCO Enterprise Message Service Admin APIs
- TIBCO Enterprise Message Service Central Administration Server
 - Centralized administration for managing groups of EMS servers
 - GUI for configuring and managing servers (with access control)
 - Configuration tracking and management in subversion
 - Configuration templates for simplified configuration construction
- TIBCO Hawk
- TIBCO Administrator
- TIBCO Enterprise RTView EMS Monitor



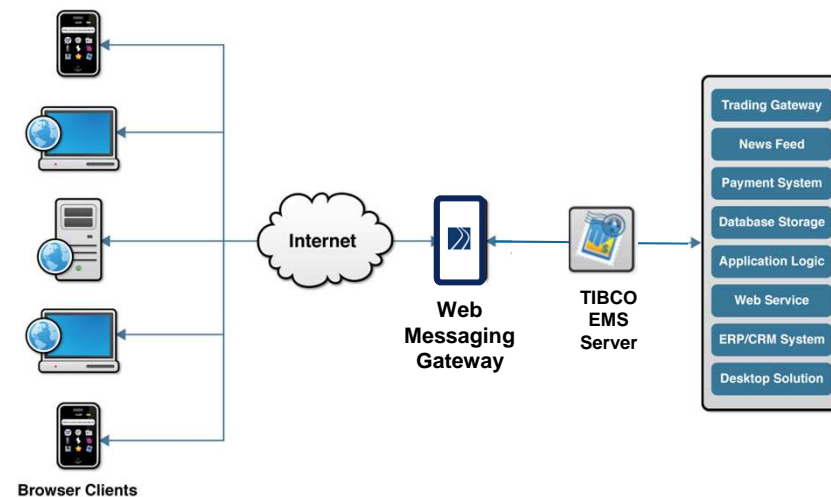
How we differentiate from MQSeries

- **More flexible / agile solution**
 - Flexibility in administration
- **.NET integration**
 - WCF channel
 - 'JMS Like' API for C#
- **Part of TIBCO ESB stack**
 - TIBCO Adapters / TIBCO BusinessWorks / TIBCO Administrator
- **WEB Messaging**
- **EMS Appliance**

WEB Messaging

Extending TIBCO EMS to the Web

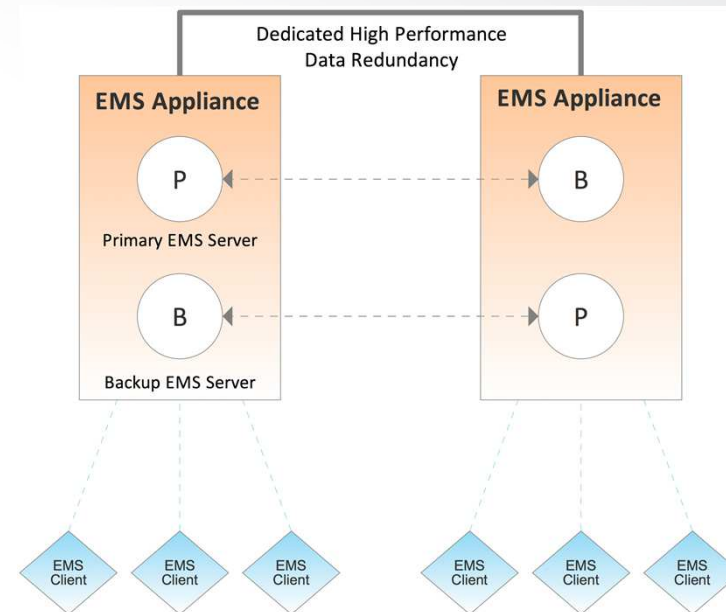
- Build for the real time WEB
 - HTML5 WebSocket ready
 - Full duplex, 2-way messaging
 - Much less overhead than HTTP
- Reduced TCO & Faster Time to Market
 - Single API – write once, run everywhere
 - Supports legacy browsers transparently
- Enterprise-grade, Web-Savvy
 - Integrates natively with TIBCO EMS
 - Extend Enterprise 3.0 to real-time web
- Use cases
 - Financial Services : Powerful Web-based trading platforms
 - Logistics : Container management, Shipping, Supply Chains
 - Gaming
 - Customer Loyalty : Real-time contextual offers in-store



TIBCO Enterprise Message Service Appliance

All the Power without the overhead

- Complete EMS functionality
- Direct integration with Software based clients and servers
 - No application or library change for existing TIBCO EMS clients
 - Supports native EMS server-to-server routing
- A highly available, dual-deployment solution for guaranteed message distribution
 - No requirement for additional third party solutions
 - Cluster File Systems / Cluster Servers
 - Storage (SAN/NAS/RDBMS/SSD)
- Support for direct connection for high performance, critical applications
- Fully compatible with existing EMS deployments
 - Routing, Security, Configuration, Monitoring
- Create mixed environments with traditional EMS Software Servers and Appliances



**A Completely Stand Alone, Drop in Solution
for Enterprise Messaging**

TIBCO EMS Appliance Benefits

All the Power without the Overhead

Cost Savings

- No requirement for additional third party solutions
 - Cluster File Systems / Cluster Servers
 - Storage (SAN/NAS/SSD)
- No need of any server-type hardware machines
- Lower operational cost
- Fast provisioning
- Short Time To Production
- Low power consumption

Performance

- Performance and Sizing Guide
- TIBCO controlled and fine-tuned appliance model
- State-of-Art hardware platform
- OOTB data-redundant FT setup
- Direct application connectivity
- Active-Active Deployment
- Full on-board redundancy of moving parts

TIBCO Enterprise Message™ Service Appliance



*A Completely Stand Alone, Drop in Solution for
Enterprise Messaging*





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