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# JavaOne™

## Open Message Queue - BOF

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Learn a little about Open Message Queue's (MQ's) history, features and future and a forum to ask questions and provide feedback.



GOAL

# The first 10 (or so) minutes

- A few minutes on MQ (history, features, roadmap)
- These slides are not intended to be:
  - A “what is JMS talk” (feel free to discuss beginner questions off line)
  - A “sell” on the MQ product specific features
  - A long talk (BOFs should be about you asking questions)
- My goal is to answer, up front, some common questions I've been asked recently. Mostly the “you look dead, you have no history, no bugs, etc.”

# What is MQ

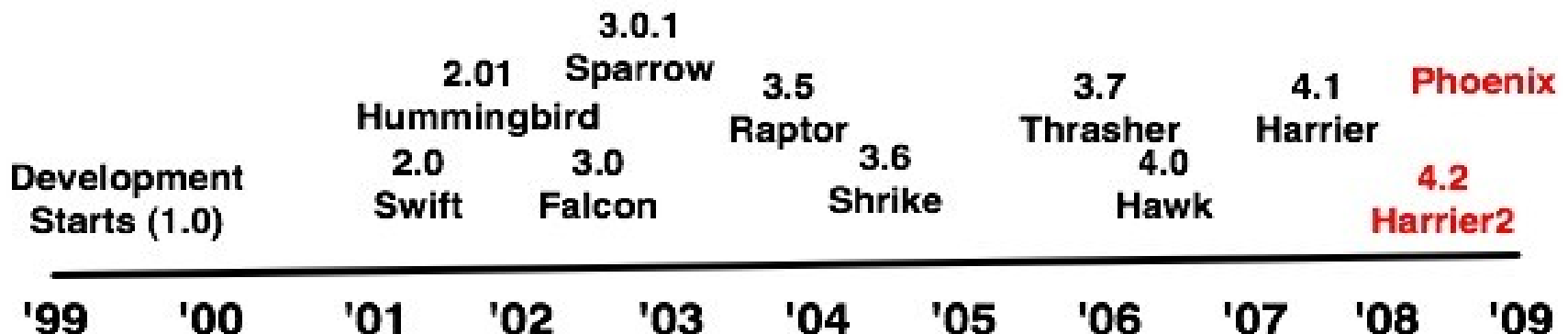
- Enterprise quality Java Message Service (JMS) implementation
  - Provides reliable asynchronous delivery of messages between two applications
  - Point-to-point (Queue) and Publish-Subscribe(Topic) models
  - Format of messages defined by user at the time the message is produced
  - Tunable levels of reliability
  - Transactional support
- Open source available at **[mq.dev.java.net](http://mq.dev.java.net)**
- Messaging provider for glassfish (and Solaris and used in a bunch of sun products)

# MQ History

- 1.0 development started in 1999
- First pure java Release (2.0) shipped in 2001
- Multiple Releases after that. Highlights:
  - 3.0 introduced clusters
  - 3.5 improved behavior of destinations and a C-api
  - 3.6 DMQ, shared subscriptions, compression
  - 3.7 Transaction Performance improvements
  - 4.0 introduced a full JMX api
  - 4.1 introduced High Availability clusters
- Multiple “supported product” names (Java Message Queue, iPlanet Message Queue, SunONE Message Queue and Sun Java System Message Queue).
- Open sourced 4.0 (in 2006) as **Open Message Queue**
  - currently no secret sauce

# How we got here

- Latest Shipping releases:
  - 3.6sp4p8, 3.7ur2p1, 4.1p1
- Bugs/RFEs Fixed (through 4.2): **4249** (3225 – dev only)
  - <https://mq.dev.java.net/issues/> (a few)
  - <http://bugs.sun.com/bugdatabase/index.jsp> (most)
- Regression Tests: 3411 tests (plus additional QA testing)
- No published SpecJMS numbers **yet**



# Current MQ features

- C-API
- Tcp/SSL/Http/Https support
- Multiple persistent stores (file based and JDBC)
  - Derby
  - Oracle
  - MySQL
- Full JMX admin API
- Full Command line api
- GUI admin tool (\*needs work))
- Soap/HTTP support
- JMS JCA for Application Servers integration
- Message Compression
- Support for 1000's of connections on a broker
- Clusters of brokers for scaling and services availability
- HA Clusters of brokers for data availability using:
  - SunCluster
  - JDBC (HA) database
    - MySQL Cluster
    - Oracle10g
    - HADB
- Authentication (file, LDAP, JAAS plugin support )
- ACLs
- Finely grained destination control

# What's in 4.2 (next minor release)

Quick Mini Feature release (almost FCS & available soon):

- C-API XA transaction support (tuxedo support)
- Wildcard Topics
  - Produce/consume on things like \*.stock
- XML validation
- Improved chapter 8 testing for JDBC HA support (actually also in 4.1p2)



## Phoenix (late 2008/early 2009)

- **Simple Data Availability (HA) support (no database required)**
- **New administration console**
- Network of Clusters aka Store and Forward
- Alternate API support (PHP, Spring, ???)
- Journaling
- Full XML wire protocol
- Specialized destination concurrency modes
- On disk (scalable) destinations
- Improved administrative control

# What's on the site and whats missing (part 1)

- Source bundles (Zipped)
- No public repository
  - Code Manager/Mecurial issues
- No Ant build scripts (in process, still need C support)
  - Product is currently built with GNUmake (pre-ant)
  - Directions for building with Netbeans
- No verification tests
  - Working on porting a set of tests to open source test product (currently using Tonga)
- Product bundles (package/installer based as well as standalone bundle)
- Documents (as Sun Java System Message Queue)
  - docs.sun.com



## What's on the site and whats missing (part 2)

- Some content/FAQs/new Wiki etc. (not enough)
- More frequent code/product drops
- Easier access to document (links into product docs)
- Versions installed in Maven
- Document more “unsupported features” e.g.
  - Running embedded
  - Sharing a single subscriber across multiple broker
- Design Documents/Functional Specifications/protocol specifications, open pagers
- ???

# Questions/Feedback/Etc.

## ➤ What we are hoping for:

- Questions about the product
- What to add to the openMQ web site
- JMS Specification questions
- Help Prioritizing features for Phoenix
- ???

## ➤ Feel free to ask questions:

- Now
- After the session tonight
- Send mail to [users@mq.dev.java.net](mailto:users@mq.dev.java.net)

# THANK YOU



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