

ADVANCED MESSAGE QUEUING PROTOCOL Internet Protocol for Business Messaging

# **AMQP** in Action

By members of the AMQP Working Group QCon London, March 2009

**Cisco Systems Credit Suisse Deutsche Börse Systems Envoy Technologies Goldman Sachs i**Matix IONA JPMorgan Chase Microsoft Novell **Rabbit Technologies** Red Hat Tervela TWIST WSO2 29West



# Who's talking today

## John O'Hara, JPMorgan

- Started AMQP, Chair of AMQP Working Group
- JPMorgan Senior Architect and Distinguished Engineer

## **Pieter Hintjens, iMatix**

CEO iMatix and creator of OpenAMQ and OMQ

## **Alexis Richardson, CohesiveFT**

Director of CohesiveFT who sponsor Rabbit MQ

## **Carl Trieloff, Red Hat**

- Senior Consulting Engineer, Director for Red Hat MRG
- Chair of Apache Qpid project



# **AMQP** was born of frustration

#### MOM needs to be *everywhere* to be useful

- dominant solutions are proprietary
  - too expensive for everyday use (Cloud-scale)
  - they don't interoperate
  - incumbents stagnating
- has resulted in lots of ad-hoc home-brew
  - how hard can middleware be?

#### Middleware Hell

- 100's of applications
- 10,000's of links
- every connection different
- massive waste of effort

#### The Internet's missing standard

• Why has no one done this before?



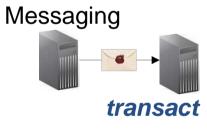


# **AMQP** Capabilities

#### An Internet Protocol for Business Messaging

- A Protocol (not an API) for maximum interoperability
- Queuing with strong Delivery Assurances
- Event distribution with Flexible Routing
- Large Message capability (gigabytes)
- Global Addressing Scheme (email-like)
- Meet common requirements of mission-critical systems
  - Robust, available, scalable, secure, resilient
  - Aims to be stable over the long run
  - Platform agnostic and totally open

# Publish/ Subscribe



#### AMQP delivers this in one handy protocol

- Candidate for a common infrastructure for the enterprise
- A foundation for other protocols and products

## File Transfer





# **AMQP** Roadmap

- AMQP 1.0 this year
- Key features
  - Simplified Architecture
  - Stronger Transaction Model
  - Global Addressing
    E.g. "forex@jpmorgan.com"
- Current implementations are AMQP v0-91 and v0-10
  - Implementer commitment to painless 1.0 migration
  - 1.0 will be finalised only after extensive inter-op testing
  - Now is the right time to embrace AMQP

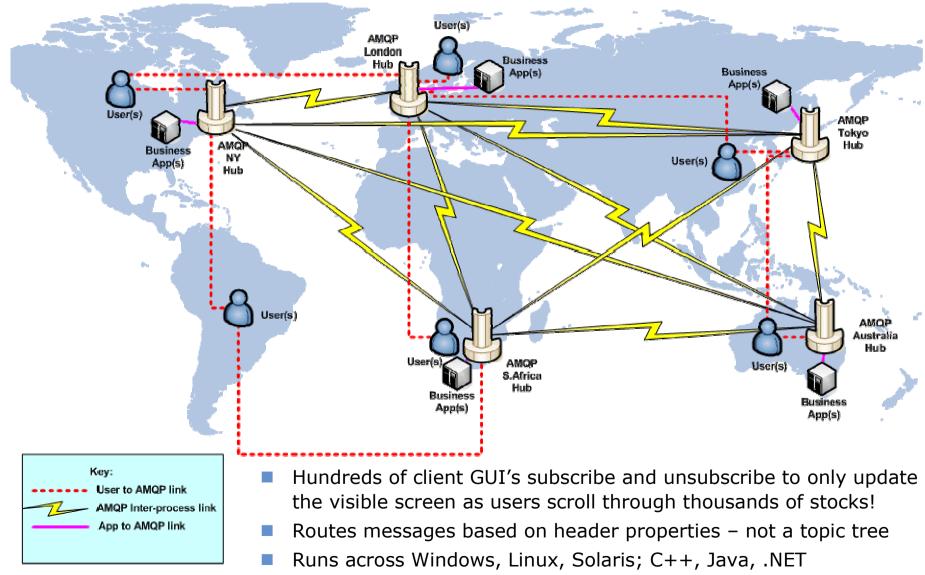
## Join us at the AMQP Conference

- Presenting AMQP 1.0 Public Review
- April 1, University of California at San Diego
- www.amqp.org for details





# "High touch" global trading application



1 billion messages per day; live for 3 years

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