AMQP 1.0 OASIS Standard

CIO Briefing

John O’Hara and Matthew Arrott
Co-Chairs OASIS AMQP Member Section
31 October 2012
Commercial Context

- At the heart of any modern business is the need for the efficient exchange of information within and between enterprises

- What is needed is a data exchange protocol that directly addresses business requirements

- This capability must be ubiquitous and unencumbered to encourage sustained investment

- A protocol that is based around units-of-work (messages) allows business interactions to be elevated above technical details

- OASIS AMQP 1.0 addresses that need and has strong industry support

‘The benefits of the networked organization are real. Senior executives should promote stronger links to customers and vendors, and greater internal integration of technologies, since these factors are associated with higher levels of benefits.’

OASIS AMQP 1.0 consolidates two decades of industry experience in messaging middleware.

In the 1960’s the shipping industry was transformed by the standardized container. AMQP provides a containerized transport for e-business transactions, moving them between diverse systems and enterprises while avoiding transport lock-in.

AMQP offers
- Business Opportunity
- Government Opportunity
- Technology Opportunity
Business Opportunity

- OASIS AMQP 1.0 is an efficient, secure, robust means to connect disparate systems and organizations in a standard way.
- Early indications are that Standardization will accelerate the delivery of business benefits.
- Yielding deep integrations both within your firm and with your business partners that is both secure and robust.
- Retain the de-coupling necessary to flexibly choose the most appropriate business partner for the circumstance.
- IT infrastructure partners you work with will likely have an AMQP story.

‘As they shift toward an integrated digital business model, most companies move through four stages: ad-hoc solutions, digital business processes, cohesive digital platform, digital business model.’

Government Opportunity

- Governments are among the largest consumers of IT products and services, and their citizens demand these are sourced efficiently.

- OASIS AMQP 1.0 is an enabler of *Modular Government Services*
  - Effective and flexible sourcing of government services requires long-lived information processing standards.
  - Interfaces based on AMQP enable a competitive market for these services.
  - AMQP is already used in government sponsored strategic initiatives.

- Standardization of AMQP will accelerate its use in critical initiatives.
  - Our aspiration for ISO status will further enhance commitment rates.
  - Underscore longevity and maturity.
Technology Opportunity

- OASIS AMQP 1.0 standardises the *transfer of responsibility* between entities
  - A key building block for layered services

- AMQP innovation – *predicated links*
  - Links control what information flows
  - Links are to messaging as SQL was to databases
  - Enables new kinds of information flow

- These capabilities are the basis for more effective business models on the Internet
  - A foundation for innovation
ADVANCED MESSAGE QUEUING PROTOCOL

Aviation
SITA

Financial Services
Bank of America, N.A.
Barclays Bank Plc
Credit Suisse
Deutsche Börse
Goldman Sachs
JPMorgan Chase Bank, N.A.

Government
US Dept. of Homeland Security

Technology
Axway Software
Cisco Systems
Flame Computing Enterprises
HCL Technologies Ltd
Huawei Technologies
IIT Software GmbH
INETCO Systems Limited
Kaazing Corporation, N.A.
Microsoft Corporation
Mitre Corporation
Primeton Technologies
Progress Software

Red Hat Inc.
Software AG
Solace Systems Inc.
StormMQ Ltd.
Tervela Inc.
Thales e-Security
TWIST Process Innovations
VMware, Inc.
WS02 Inc.