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# Advanced Message Queuing Protocol (AMQP) 1.0 Becomes OASIS Standard

Axway, Bank of America, Deutsche Boerse, Goldman Sachs, Huawei, Kaazing, JPMorgan Chase, Microsoft, Primeton, Progress Software, Red Hat, Software AG, US Dept of Homeland Security, VMware and Others Collaborate on Interoperability Standard for Messaging

*31 October 2012* ? Members of the OASIS international open standards consortium have approved version 1.0 of the Advanced Message Queuing Protocol (AMQP) as an OASIS Standard. AMQP is a wire-level messaging protocol that offers organizations an efficient, reliable approach to passing real-time data and business transactions with confidence. AMQP provides a platform-agnostic method for ensuring information is safely transported between applications, among organizations, within mobile infrastructures, and across the Cloud.

"The advancement of AMQP 1.0 as an OASIS Standard heralds a new era of standards-based interoperability for message-oriented middleware," said Ram Jeyaraman of Microsoft Open Technologies, Inc., a subsidiary of Microsoft Corporation, co-chair of the OASIS AMQP Technical Committee. "AMQP 1.0 enables interoperability between compliant brokers and simplifies interactions between clients and brokers independent of the language or the platform used. Further, as an inherently efficient application layer binary protocol, AMQP 1.0 offers new possibilities in messaging that scale from the client to the cloud."

AMQP supports common interaction patterns: one way, request/response, publish/subscribe, transactions, and store-and-forward. It does this with flow-control, multiplexing, security, recovery and a portable data representation that enables message filtering. AMQP is capable of being used in both point-to-point and hub-and-spoke (broker-based) topologies.

"AMQP 1.0's support of the different fundamental message patterns makes it the ideal choice as a transport protocol between multi-vendor applications both within the Cloud and over the Internet," says Angus Telfer of INETCO, co-chair of the OASIS AMQP Technical Committee. "By avoiding proprietary technologies, AMQP can lower the cost of enterprise application integration by encouraging a full ecosystem of compatible message-oriented products, including both those delivering application value and those used to ensure higher performance, more reliable systems, i.e., application performance monitoring, network monitoring tools, etc."

AMQP is used in financial front office trading, ocean observation, transportation, smart grid, computer-generated animation, and online gaming. Many operating systems include AMQP implementations, and many application frameworks are AMQP-aware. There are Cloud-hosted offerings of AMQP, and it is embedded in virtualization infrastructure.

"OASIS AMQP 1.0 delivers a protocol which is immediately useful. The AMQP Member Section will continue to advance standards-based interoperability," said John O'Hara and Matthew Arrott, co-chairs of the OASIS AMQP Member Section.

Participation in the OASIS AMQP Technical Committee is open to all interested parties. Archives of the Committees' work are accessible to both members and non-members, and OASIS invites public review and comment.

## **Support for AMQP 1.0**

### [Axway](#) [1]

"The OASIS AMQP Technical Committee is to be congratulated on its open standardization of AMQP version 1.0 as an OASIS specification; the protocols, wire formats and framing that have been defined for AMQP should promote enhanced interoperability for AMQP brokers. AMQP implementations will add a valuable tool for the creation of interoperable internal and external business interaction networks."

-- *Dale Moberg, Chief Architect*

### [Kaazing](#) [2]

"As the enablers of the Living Web and HTML5 WebSocket technology, everyone at Kaazing is excited to support OASIS' ongoing efforts to proliferate open standards and create a superior user web experience. Standardizing AMQP and combining it with WebSocket technology is an excellent strategy when building an event driven architecture. Working alongside OASIS, Kaazing has developed a Living Web in order to create the best possible web experience for users, reduce complexity, and increase interoperability."

-- *John Fallows, CTO and Co-Founder*

### [Microsoft](#) [3]

"Microsoft congratulates the AMQP community on approval of AMQP version 1.0 as an OASIS Standard. As an open and interoperable messaging protocol that can scale from mobile clients to the cloud, AMQP has benefitted from the participation of technical experts from around the world, and the achievement of this important milestone will lead to continued growth in the AMQP ecosystem. We look forward to working with the community to promote AMQP-based interoperability and innovation."

-- *Scott Guthrie, Corporate VP, Microsoft's Server and Tools Business Division*

### [Red Hat](#) [4]

"Red Hat is pleased to see the hard work of the Technical Committee come to fruition. We are a founding member of the AMQP Technical Committee and have been active on the specification since the early days. AMQP 1.0 represents a significant improvement in the messaging arena and we expect to continue to support it in our products to meet customer needs."

-- *Mark Little, Vice President, Middleware Engineering*

### [Software AG](#) [5]

"A platform independent and vendor neutral protocol like AMQP removes hurdles in advancing interoperability of message-oriented middleware technologies. As a founding sponsor member of the AMQP TC and the related AMQP Steering Committee, Software AG is very pleased to see AMQP 1.0 transition to an OASIS Standard. Software AG supports numerous standards in its product suite, and AMQP has been an important addition to webMethods Nirvana, increasing interoperability and providing advanced messaging capabilities to our customers."

-- *Prasad Yendluri, VP & Deputy CTO*

### [VMware](#) [6]

"AMQP 1.0 is a novel addition to the growing toolkit of open protocols for transporting data between systems and virtualized application delivery. Standard transports enable lower cost business integration and messaging. AMQP 1.0 admits many use cases by defining safe message transfer between peers, without the constraint of a message broker model. With its open license, we anticipate both AMQP's wide adoption by messaging servers,

and its use as a new API for database and integration products."

--Alexis Richardson, Senior Director

### **Additional information**

OASIS AMQP Technical Committee:

<http://www.oasis-open.org/committees/amqp/>

AMQP Member Section site:

<http://www.amqp.org>

### **About OASIS**

OASIS (Organization for the Advancement of Structured Information Standards) is a not-for-profit, international consortium that drives the development, convergence and adoption of open standards for the global information society. OASIS promotes industry consensus and produces worldwide standards for Cloud computing, business transactions, security, Web services, Smart Grid, content management, and other applications. OASIS open standards offer the potential to lower cost, stimulate innovation, grow global markets, and protect the right of free choice of technology. OASIS members broadly represent the marketplace of public and private sector technology leaders, users and influencers. The consortium has more than 5,000 participants representing over 600 organizations and individual members in 100 countries: <http://www.oasis-open.org>.

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### **Links:**

[1] <http://www.axway.com/>

[2] <http://www.kaazing.com/>

[3] <http://www.microsoft.com/>

[4] <http://www.redhat.com/>

[5] <http://www.softwareag.com/>

[6] <http://www.vmware.com/>