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OASIS Members to Advance MQTT Standard for M2M/ IoT Reliable Messaging

Cisco, Eclipse Foundation, Eurotech, IBM, Kaazing, Machine-To-Machine Intelligence (M2Mi), Red Hat, Software AG, TIBCO, and Others Partner to Standardize MQTT Protocol

25 April 2013--Organizations from around the world are collaborating at the OASIS open standards consortium to advance a lightweight reliable messaging transport protocol for the Machine-to-Machine (M2M)/Internet of Things (IoT) marketplace. The new [OASIS Message Queuing Telemetry Transport \(MQTT\) Technical Committee](#) [1] will develop a standardized version of the MQTT protocol.

MQTT is a publish / subscribe messaging transport protocol optimized to connect physical world devices and events with enterprise servers and other consumers. It is designed to overcome the challenges of connecting the rapidly expanding physical world of sensors, actuators, phones, and tablets with established software processing technologies.

"MQTT is well suited to underpin the world of M2M/IoT and mobile applications where resources such as bandwidth and battery power are at a premium. It is an extremely lightweight, simple yet reliable protocol, designed for use where small code footprints are often advantageous," said Richard Copen of IBM, who co-chairs the new OASIS MQTT Technical Committee, along with Raphael Cohn.

"At OASIS, we'll be addressing IoT data flow challenges and other issues that have been identified by the community," added Cohn. "We'll broaden the range of enterprise solutions by enabling integration with business applications and expanding connectivity to different types of networks and remote devices."

MQTT is already widely implemented across a variety of industries and applications. For example, MQTT has been used in sensors communicating to a broker via satellite links, over occasional dial-up connections with healthcare providers (medical devices), and in a range of home automation and small device scenarios. MQTT is well suited for mobile applications because of its small size, minimized data packets, and efficient distribution of information to one or many receivers.

The MQTT specification has been contributed to the OASIS MQTT Technical Committee by IBM and Eurotech, authors of the original version of the protocol.

"We applaud IBM and Eurotech for bringing MQTT into the OASIS open standards process. Companies feel more confident about implementing the protocol when they can actively participate in its future," noted Laurent Liscia, OASIS CEO. "We're very pleased that the MQTT Technical Committee will operate the OASIS Non-Assertion Intellectual Property Rights mode, which will provide added reassurance for developers and promote widespread adoption."

New members are encouraged to join the OASIS MQTT Technical Committee at any time. Archives of the

work are accessible to both members and non-members, and OASIS invites public review and comment on the work.

Support for OASIS MQTT

[Eclipse Foundation](#) [2]

"The M2M industry will need to adopt technology based on open standards and open source implementation to ensure widespread adoption. MQTT is well on its way to being a key standard for M2M applications. We are happy to be involved in the OASIS MQTT standardization process and host the MQTT reference implementation in the Eclipse Paho project."

-- *Mike Milinkovich, Executive Director, Eclipse Foundation*

[Eurotech](#) [3]

"We are excited to encourage further adoption of the MQTT protocol, which has the potential to simplify Internet of Things applications and services. Connecting distributed devices using this efficient and elegant protocol offers companies flexibility to integrate disparate data sources like intelligent devices and sensors into enterprise IT landscapes, to deliver truly useful and actionable information that drives business decisions."

-- *Giampietro Tecchiolli, CTO and Executive VP, Eurotech Group*

[IBM](#) [4]

"We are excited to be working with OASIS on standardizing the MQTT protocol to unify communications for billions of mobile devices, machines and sensors, across networks. This Technical Committee and the Eclipse PAHO open source project are important ingredients for building a Smarter Planet. Just like HTTP and HTML transformed how we used the Internet, MQTT will accelerate how we all interact with the Internet of Things."

-- *Angel Diaz, Vice President, Software Standards and Cloud, IBM*

[Kaazing](#) [5]

"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 MQTT 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, Kaazing CTO and Co-Founder*

[M2Mi](#) [6]

"Machine-To-Machine Intelligence (M2Mi) is delighted to participate in the development, awareness and adoption of MQTT as an open industry standard for M2M/Internet of Things."

-- *Geoff Brown, m2mi CEO (and OASIS MQTT TC Secretary)*

[Software AG](#) [7]

"Software AG is very pleased to be part of the OASIS standardisation effort for MQTT, an extremely lightweight messaging middleware protocol that facilitates embedded / M2M systems communication in real time. Leading research estimates 50 to 500 billion devices will have a connection to the cloud by 2020 and Software AG is excited to be already in a position to provide connectivity, integration and analytics solutions to enterprises with such needs."

-- *Eddie McDaid, VP, Software AG*

Additional information

[OASIS MQTT Technical Committee](#) [1]

About OASIS

OASIS is a non-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 M2M, IoT, security, privacy, cloud computing, content technologies, energy, emergency management, and other areas. 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.

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Links:

[1] <http://www.oasis-open.org/committees/mqtt/>

[2] <http://www.eclipse.org/>

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

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

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

[6] <http://www.m2mi.com/>

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