

# Submission request to advance MQTT v3.1.1 to an ISO/IEC International Standard

April, 2015

Any submission request delivered to the OASIS President under this policy must be in writing, and must include the following:

- a. The name(s) of the submission requester(s), that is, the TC, the Member Section, or the OASIS Organizational Members that support the submission request as described in section 1(d).

## OASIS Message Queuing Telemetry Transport (MQTT) Technical Committee

- b. The name of the intended receiving standards organization. The request may also suggest the committee or group in that organization which should process that submission.

## ISO/IEC JTC 1 Secretariat (no particular JTC 1 Subcommittee is identified at this time)

- c. The intended status or outcome that the request seeks from the receiving organization's process; and a short description of the receiving organization's approval process, including estimated time required, stages of approval and who votes at each stage.

## Intended status: Advance MQTT v3.1.1 OASIS Standard to an ISO/IEC International Standard

Process: ISO/IEC JTC 1 PAS Transposition Process involving a Draft International Standard (DIS) ballot followed by a Ballot Resolution Meeting (BRM) (if there are comments during ballots), and potentially a Final DIS (FDIS) Ballot.

- d. An explanation of how the submission will benefit OASIS.

Advancing the MQTT v3.1.1 OASIS Standard to an international standard draws international attention to the work done by OASIS and to the organization itself. Governments and regulators may be more inclined to use and support the standard because of its ISO/IEC status. This will help nurture and expand the ongoing liaisons with ISO/IEC JTC 1.

- e. The expected licensing, copyright and other intellectual property terms that will be used by the receiving organization in regard to the submission.

ISO/IEC JTC 1 will expect that OASIS will abide by the ISO/IEC/ITU-T Common Patent Policy (indicated by notifying ISO/IEC of any patent declarations in the required Explanatory Report), and will provide ISO/IEC with sufficient copyright license to modify and publish the resulting ISO/IEC Standard. As that approach already has been agreed with ISO/IEC JTC 1 when OASIS was approved as a PAS Submitter, no new issues are expected.

- f. A statement of the intended future plans for versioning and maintenance of the OASIS Standard and/or Approved Errata for that standard, and the expected roles of OASIS and the receiving organization. This must include clear statements of the rules of the receiving organization applicable to maintenance of an approved submitted standard, and to future versions of that standard; any requirements regarding the submission of future versions; and a description of how OASIS and the submission requesters expect to comply with those rules.

The OASIS Message Queuing Telemetry Transport (MQTT) Technical Committee will continue to maintain the MQTT v3.1.1 OASIS Standard and produce future revisions. For this specific submission of MQTT v3.1.1 to ISO/IEC JTC 1,

OASIS will request to be named the "JTC 1 designated maintenance group," and will follow the required maintenance procedures (including Systematic Review). In the course of time, if there are substantive changes to MQTT v3.1.1 (either via the Approved Errata process, or through a new version), OASIS may submit the modified document (or a future version) to ISO/IEC JTC 1 at some point in the future.

- g. Evidence of public demonstration of interoperability per section 1c of the OASIS Liaison Policy.

As part of the MQTT standardization effort, the OASIS MQTT Technical Committee, working with the Eclipse Foundation, Eclipse's Internet of Things (IoT) Working Group, and the Eclipse Paho project, coordinated a public demonstration of MQTT 3.1.1 interoperability in Ottawa, Canada during April of 2014: ([https://www.eclipse.org/org/press-release/20140407\\_mqtt\\_test\\_day.php](https://www.eclipse.org/org/press-release/20140407_mqtt_test_day.php) ). This interoperability demonstration included 15 MQTT-based product implementations from a wide range of organizations, and achieved a vital milestone in delivering the MQTT standard.

OASIS staff has reviewed evidence of this public demonstration of interoperability and have confirmed that this does satisfy the OASIS Liaison Policy public interoperation demonstration requirements.