

OASIS MQTT Technical Committee

Minutes of the TC meeting held on Thursday 21st November 2019

Teleconference meeting

Attendees:

Ken Borgendale
Richard Coppen
Ian Craggs
Derek Fu
Rahul Gupta
Simon Johnson
Jonathan Levell
Peter Niblett
Andrew Schofield
Allan Stockdill-Mander
Drew Varner

Agenda:

- Welcome
- Approve agenda
- Approve minutes from last meeting
- Voting rights update
- MQTT-SN Next Steps
- MQTT v5.0 Implementers Guide
- AOB
- Confirm time and date of next meeting
- Check for late arrivals
- Close

Richard Coppen: Agenda - no objections. TC approve.

Richard Coppen: *Approve minutes from last meeting:

https://www.oasis-open.org/committees/document.php?document_id=65623&wg_abbrev=mqtt

Richard Coppen: Minutes from last call - no objections. TC approve

Richard Coppen: *Voting Rights update:

Following meeting 11.07.19

Ian Craggs group role has been changed to Voting Member

Andrew Schofield group role has been changed to Member

Richard Coppen: <https://www.oasis-open.org/apps/org/workgroup/mqtt/members/roster.php>

Ian Craggs: Ian Craggs is no longer an employee of IBM but has rejoined the TC as an individual contributor, primarily intending to concentrate on MQTT-SN

Richard Coppen: Ian retains voting rights - no objections. TC approve

Ian Craggs: Richard notes that it's MQTT 20th birthday!

Richard Coppen: Does the MQTT TC accept the MQTT-SN v1.2 specification as contributed by IBM on 22nd October 2019 > https://www.oasis-open.org/committees/document.php?document_id=66091&wg_abbrev=mqtt ?

Richard Coppen: No objections. TC accept MQTT-SN 1.2 as an input specification.

Ian Craggs: Richard talks about the next steps for MQTT-SN

Richard Coppen: Clarification that charter does reference support for constrained devices i.e., "additional support for resource constrained MQTT clients."

Richard Coppen: Does the MQTT Technical Committee move to hold a special majority ballot to approve the formation of a MQTT-SN Subcommittee. In addition, does the TC approve the Chair to undertake actions required by the OASIS administration to facilitate such a ballot?

Ken Borgendale: yes

Ian Craggs: Yes

Derek Fu: Yes

Rahul Gupta: Yes

Simon Johnson: Yes

Jon Levell: Yes

Drew Varner: Yes

Richard Coppen: Majority Yes - TC approve request

Ian Craggs: Al asks about the rationale of setting up a subcommittee rather than discussing in the main TC.

Ian Craggs: Richard responds that it allows the subset of TC members who are interested in MQTT-SN to focus and keep voting rights and other admin related to MQTT-SN isolated

Richard Coppen: Does the the MQTT TC elect the Ian Craggs and Allan Stockdill-Mander as co-chairs of the to be newly formed MQTT-SN Subcommittee?

Ken Borgendale: yes

Ian Craggs: Yes

Derek Fu: Yes

Rahul Gupta: Yes

Simon Johnson: Yes

Jon Levell: Yes

Drew Varner: Yes

Richard Coppen: Editors: Allan, Simon and Ian volunteer - no objections. TC approve.

Richard Coppen: For TC review: Resolution to form the MQTT-SN Subcommittee of the MQTT Technical Committee

Preamble:

The MQTT Technical Committee was chartered to review the MQTT 3.1.1 input specification and deliver enhancements to improve operation at scale, improve error reporting, provide support for Message Exchange Patterns (MEPs), simplify extensibility and improve performance. In addition, the charter explicitly allows for additional support for resource constrained MQTT clients. While much of this work was delivered in the MQTT v5.0 OASIS standard, the TC is increasingly aware of growing need for messaging solutions optimized for very constrained devices often operating within unstructured data networks. The MQTT For Sensor Networks (MQTT-SN) specification defines a messaging protocol ideally suited for this type of environment and

is by design related to MQTT. While this is a pre-existing and publicly available specification, it is not recognized or approved by a standards body such as OASIS.

Then be it resolved:

A subcommittee known as the MQTT-SN Subcommittee (SC) shall be formed with two co-equal chairs and any number of secretaries and document editors as deemed appropriate by the SC; using working methods agreed to by the SC; with the Statement of Purpose per the attached. The SC shall accept the MQTT-SN Version 1.2 protocol specification as an input specification > https://www.oasis-open.org/committees/document.php?document_id=66091&wg_abbrev=mqtt < and recommend approaches that facilitate refinement of the MQTT-SN protocol and integration with MQTT. Furthermore, with approval from the parent TC, the SC may develop documents and artefacts to clarify the MQTT-SN protocol and provide implementation guidance.

MQTT-SN Subcommittee Co-chairs

The initial MQTT-SN SC co-chairs, as voted by the MQTT Technical Committee, shall be:

- Ian Craggs, and
- Allan Stockdill Mander

Attachment:

Statement of Purpose

The MQTT-SN SC is responsible for identifying and providing guidance for the future direction of the MQTT-SN specification. The SC will leverage pre-existing standards to the greatest extent practical and it is within scope of this SC to deliver OASIS work products to support and guide the TC in providing clarity and implementer guidance for the MQTT-SN protocol.

All interested parties are welcome to participate as part of the MQTT-SN SC under the main OASIS MQTT Technical Committee.

List of Deliverables

- Recommendation as to the future direction of the MQTT-SN protocol.
- Deliver appropriate specifications, documents or OASIS work product conforming to OASIS templates and RFC2119 language.
- Other non-normative work products to increase adoption and improve the ease of use of MQTT/MQTT-SN.

Richard Coppens: No objections. TC approve submission of resolution.

Ian Craggs: Richard thanks Ken Borgendale for all his contributions as editor on the MQTT 5.0 standard

Richard Coppens: Broken link reported in V5.0 spec:

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I noticed a broken link on this page - <http://docs.oasis-open.org/mqtt/mqtt/v3.1.1/os/mqtt-v3.1.1-os.html>

Its the NSA link on cryptography (http://www.nsa.gov/ia/programs/suiteb_cryptography/), the information seems to have moved to https://csrc.nist.gov/CSRC/media/Events/ISPAB-MARCH-2006-MEETING/documents/E_Barker-March2006-ISPAB.pdf

Perhaps whilst you are updating this youd consider including a link to one of our guides at the same time - <https://comparite.ch/encryption-types> - it covers encryption algorithms, security protocols and cryptography. It is also more up to date than the NIST resource which although working is from 2006.

I hope this helps.

Thanks,
Kevin
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Richard Coppen: More generally, the TC need to review the spec for broken links. However, looks like we're in a position to consider an errata to clean this up.

Richard Coppen: Following on from our discussion re. setting up a new doc repository to home a MQTT TC Implementers guide and the licensing terms around that. Chet has proposed we follow the approach set by others TCs for example > <https://github.com/oasis-tcs/dita-lwdita/blob/master/LICENSE.md> < which packages the TC license and sets out contribution terms.

Richard Coppen: Richard to talk with Clemens and then request new repo with same license approach.

Richard Coppen: late joiners: Peter Niblett