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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATION STANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD1162 |
| **TSAG** |
| **Original: English** |
| **Question(s):** | N/A | E-Meeting, 25-29 October 2021 |
| **TD(Ref.:** [SG20-LS231](http://handle.itu.int/11.1002/ls/sp16-sg20-oLS-00231.docx)) |
| **Source:** | ITU-T Study Group 20 |
| **Title:** | LS/r on a draft submission and maintenance process for oneM2M specifications (reply to TSAG-LS43 and oneM2M-LS18) [from ITU-T SG20] |
| **Purpose:** | Action |
| **LIAISON STATEMENT** |
| **For action to:** | oneM2M, TSAG |
| **For comment to:** | - |
| **For information to:** | - |
| **Approval:** | ITU-T Study Group 20 meeting (Virtual, 21 October 2021) |
| **Deadline:** | N/A |
| **Contact:** | Nasser Saleh Al MarzouqiChairman SG20 | Tel: +97 6118 468Fax: +97 6118 484E-mail: nasser.almarzouqi@tra.gov.ae  |
| **Contact:** | Olivier DubuissonITU-T A.25 Editor | Tel: +22 2 96 07 38 50E-mail: olivier.dubuisson@orange.com  |

This liaison answers [TSAG-LS43](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00043.zip), [oneM2M-LS18](https://www.itu.int/ifa/t/2017/ls/onem2m/sp16-onem2m-iLS-00018.pdf).

A new liaison statement has been received from SG20.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp16-sg20-oLS-00231.docx>.

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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | **SG20-LS231** |
| **STUDY GROUP 20** |
| **Original: English** |
| **Question(s):** | All/20 | Virtual, 11-21 October 2021 |
| **Ref.: SG20-TD2446-R3** |
| **Source:** | ITU-T Study Group 20 |
| **Title:** | LS/r on a draft submission and maintenance process for oneM2M specifications (reply to [TSAG-LS43](http://handle.itu.int/11.1002/ls/sp16-tsag-oLS-00043.zip) and [oneM2M-LS18](http://handle.itu.int/11.1002/ls/sp16-onem2m-iLS-00018.pdf))  |
| **LIAISON STATEMENT** |
| **For action to:** | TSAG, oneM2M  |
| **For comment to:** | - |
| **For information to:** | - |
| **Approval:** | ITU-T Study Group 20 meeting (Virtual, 21 October 2021) |
| **Deadline:** | N/A |
| **Contact:** | Nasser Saleh Al MarzouqiChairman SG20 | Tel: +97 6118 468Fax: +97 6118 484E-mail: nasser.almarzouqi@tra.gov.ae |
| **Contact:** | Olivier DubuissonITU-T A.25 Editor | Tel: +22 2 96 07 38 50E-mail: olivier.dubuisson@orange.com  |

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| **Keywords:** | Recommendation ITU-T A.25, Recommendation ITU-T A.5, oneM2M |
| **Abstract:** | This liaison statement is a reply from ITU-T Study Group 20 to TSAG and to oneM2M on a draft submission and maintenance process for oneM2M specifications. |

This liaison answers [TSAG-LS43](http://handle.itu.int/11.1002/ls/sp16-tsag-oLS-00043.zip) and [oneM2M-LS18](http://handle.itu.int/11.1002/ls/sp16-onem2m-iLS-00018.pdf).

ITU-T Study Group 20 discussed the collaboration with oneM2M during its meeting that took place from 11 to 21 October 2021.

During the SG20 plenary held on 19 October 2021, the meeting could not reach consensus on the best way forward to collaborate with oneM2M and it was decided to seek TSAG’s advice on three options which are currently being explored.

ITU-T Study Group 20 looks forward to cooperating closely with TSAG.

**Context**

Building on the ITU-T Study Group 20 "ad-hoc session on the oneM2M discussion" held on 15 October 2021 (13:00-14:00 CEST) ([SG20-TD2445](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-211011-TD-GEN-2445)), this liaison statement provides an answer to the following SG20 documents:

* [SG20-TD2131](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-210517-TD-GEN-2131) - LS/i on a draft submission and maintenance process for oneM2M specifications incorporated as ITU-T Recommendations [from TSAG]
* [SG20-TD2382](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-211011-TD-GEN-2382) - LS/i/r on information on the draft submission and maintenance process for oneM2M specifications incorporated as ITU-T Recommendations (reply to SG20-LS229) [from oneM2M]
* [SG20-TD2439](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-211011-TD-GEN-2439) - Information provided by the Chairman of the oneM2MSteering Committee in response to a question from Russian Federation

ITU-T Study Group 20 would like to thank TSAG for the process described in the liaison statement concerning the submission and maintenance process for oneM2M specifications that are transposed as ITU-T Recommendations and which is intended to replace the current process documented in Recommendation ITU-T Y.4500.1, Annex L.

ITU-T Study Group 20 would also like to thank oneM2M for the process described in the liaison statement concerning the submission and maintenance process for oneM2M specifications.

**Current situation**

At the moment, the following oneM2M specifications have been transposed as ITU-T Recommendations (*i.e.*, one ITU-T Recommendation per oneM2M technical specification, with identical text using the format for ITU-T Recommendations):

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|  [Y.4500.1: *oneM2M – Functional architecture*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13390) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.2: *oneM2M – Requirements*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13499) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.4: *oneM2M – Service layer core protocol specification*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13500)  |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.5: *oneM2M management enablement (OMA)*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13501) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.6: *oneM2M management enablement (BBF)*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13502) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.8: *oneM2M – CoAP protocol binding*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13503) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.9: *oneM2M – HTTP protocol binding*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13504) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.10: *oneM2M – MQTT protocol binding*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13505) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.11: *oneM2M – Common terminology*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13506) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.12: *oneM2M base ontology*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13507) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.13: *oneM2M – Interoperability testing*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13508) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.14: *oneM2M – LwM2M interworking*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13509) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.15: *oneM2M – Testing framework*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13510) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.20: *oneM2M – WebSocket protocol binding*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13511) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.22: *oneM2M – Field device configuration*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13512) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.23: *oneM2M – Home appliances information model and mapping*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13513) |
|  |  |  | https://www.itu.int/ITU-T/recommendations/WebResource.axd?d=Yhn0eayvCNhxv1PVlni8YSIh9nfg0M-T9kyDIW8cQmiJrUCbf-zBI32Ri2W7eyhNVTS6tt4E4ODHWtUN658FDV546eqX2uNdCIQ6bKLNcMVHw8DHBlA_szSnFXbvlL170&t=637454105640000000 | [Y.4500.32: *oneM2M – MAF and MEF interface specification*](https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=13642) |

NOTE – This set of Recommendations (including the "oneM2M Specification update and maintenance control procedure" in Recommendation ITU-T Y.4500.1, Annex L) would be superseded once Recommendation ITU-T Y.4500 is approved.

**Future situation**

In the liaison statement contained in [SG20-TD2382](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-211011-TD-GEN-2382), oneM2M proposes to submit the next releases as a single ITU-T Recommendation (e.g., Recommendation ITU-T Y.4500) with short text introducing the release and with normative references to the oneM2M technical specifications.

This means that the oneM2M technical specifications would **not** be incorporated anymore as ITU‑T Recommendations (under the rules of Recommendation ITU-T A.25). The process would rely on Recommendation ITU-T A.5 and an A.5-justification would need to be provided for each normative reference to an oneM2M specification.

NOTE – OneM2M notes that a similar approach is used between 3GPP and ITU-R (see, e.g., Recommendation [ITU-R M.2150](https://www.itu.int/rec/R-REC-M.2150/en)).

The A.5-qualification of the oneM2M partnership is necessary (pending clarification on the A.5-qualification of TSDSI).

During the ITU-T SG20 plenary that took place on 19 October 2021, three options have been explored and are submitted to TSAG for its consideration:

**OPTION 1: Workflow for the submission of an oneM2M release as an ITU-T Recommendation**

oneM2M sends a liaison statement to ITU-T SG20 with the submission of a new release (including text for the scope and introduction of the draft ITU-T Recommendation – see "skeleton" below).

NOTE 1 – The liaison statement from oneM2M contains hyperlinks to the relevant technical specifications. The TSB will upload the specifications to the ITU web site as attachments to the TD.

NOTE 2 – To the extent possible, the submission will be shared on the relevant Question(s) mailing-list(s) at least two months before stabilization of a release by oneM2M to allow the consideration of comments by ITU-T members (see the "maintenance" section below). Study Group 20 will consult other study groups when a given technical specification falls in their area of expertise. If necessary, joint meetings are organized between oneM2M and the relevant Question(s) to introduce the new release and get feedback from Study Group 20 participants.

The relevant SG20 Question develops an A.1 justification to be approved by the SG20 plenary.

The editor produces an A.5 justification for each normative reference listed in clause 2 of the draft ITU-T Recommendation.

The draft ITU-T Recommendation (together with the A.5-justifications) is consented for AAP Last Call (or determined for TAP consultation) by ITU-T Study Group 20.

**OPTION 2: Workflow for the submission of an oneM2M release as a set of ITU-T Recommendations**

oneM2M sends a liaison statement to ITU-T Study Group 20 with the submission of a new release.

NOTE 1 – The liaison statement from oneM2M contains hyperlinks to the relevant technical specifications. The TSB will upload the specifications to the ITU website as attachments to the TD.

NOTE 2 – To the extent possible, the submission will be shared on the relevant Question(s) mailing-list(s) at least two months before stabilization of a release by oneM2M to allow the consideration of comments by ITU-T members (see the "maintenance" section below). Study Group 20 will consult other study groups when a given technical specification falls in their area of expertise. If necessary, joint meetings are organized between oneM2M and the relevant Question(s) to introduce the new release and get feedback from Study Group 20 participants.

For each draft ITU-T Recommendation, the relevant SG20 Question develops an A.1 justification and an A.25 justification to be approved by the SG20 plenary.

For each draft ITU-T Recommendation, the editor produces a text by adapting the oneM2M technical specification to the ITU-T Recommendation format (in particular ensuring that clauses 1 to 5 are properly filled).

For each draft Recommendation, the editor produces an A.5 justification for each normative reference listed in clause 2.

The set of draft ITU-T Recommendations (together with the A.5-justifications) is consented for AAP Last Call (or determined for TAP consultation) by Study Group 20.

**OPTION 3: Invite interested parties to propose a new WTSA-20 Resolution regarding collaboration between ITU-T and oneM2M**

1. Background information may be found in in WTSA Resolution 7, Supplement 5 to the ITU-T A-series, ITU-R Resolution 65 (2015), Recommendation ITU-R M.2150 (pages 1-6).

**Maintenance of the resulting ITU-T Recommendation (for options 1 and 2)**

The maintenance of the technical specifications is handled by oneM2M. Consequently, ITU-T may request changes according to the following procedure:

1) Change requests addressing improvements, modifications or other changes to the Technical Specifications (TSs)/Technical Reports (TRs), upon agreement by the ITU-T study group, are submitted to oneM2M via e-mail to itu-input@list.oneM2M.org or via a liaison statement to the oneM2M Technical Working Group (TWG).

a) All change requests are required to clearly state the reason for the revision and reference any applicable page, clause, table, figure and paragraph affected.

b) All change requests are required to include a specific, well-scoped proposed change.

2) oneM2M acknowledges receipt of the submission via e-mail to the ITU-T study group secretariat and considers the submission using its normal processes.

a) All submission proposals are reviewed and disposed by the oneM2M Technical Working Group (TWG).

b) The disposed outcome is communicated back to the originating ITU-T study group.

**Skeleton of the resulting ITU-T Recommendation (for option 1)**

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| Recommendation ITU-T Y.4500oneM2M release *n*1 Scope*NOTE – To be developed in collaboration between oneM2M and SG20.*2 ReferencesThe following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.[oneM2M TS-0n1] oneM2M TS 0n1 (Vx.y.z), *oneM2M*; *Title*, Month Year*.*[oneM2M TS-0n2] oneM2M TS 0n2 (Vx.y.z), *oneM2M*; *Title*, Month Year*.*[oneM2M TS-0n3] oneM2M TS 0n3 (Vx.y.z), *oneM2M*; *Title*, Month Year*.**NOTE – The editor of this draft Recommendation will produce an A.5-justification (or extract it from the ITU-T A.5 database) for each of the above normative references.*3 DefinitionsNone.4 Abbreviations and acronymsNone. 5 ConventionsNone*.*6 Introduction*NOTE – To be developed in collaboration between oneM2M and SG20. This text should include the normative references [oneM2M TS-0n1], [oneM2M TS-0n2], [oneM2M TS-0n2], etc.* |

### Publication of the process for the submission and maintenance of oneM2M specifications

Once the process described in this liaison statement is agreed by oneM2M, it will be made publicly available on the ITU-T SG20 web portal. In particular, it will replace Recommendation ITU-T Y.4500.1, Annex L.

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