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| MINUTES |
| Meeting title: | SDS 65.4 |
| Chair: | Peter Niblett, IBM, peter\_niblett@uk.ibm.com |
| Vice-Chairs: | SeungMyeong Jeong, KETI, sm.jeong@keti.re.kr Wei Zhou, CICT, zhouwei@catt.cn  |
| Secretary: | Akash Malik, akash@tsdsi.in  |
| Meeting Date: | 02 Sept 2024 |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |

oneM2M Notice

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1 Opening of the meeting

1.1 Welcome

Peter Niblett, Chair, opened the SDS 65.2 meeting on 02 September 2024. Participants were reminded to familiarize themselves with the participation notices.

1.2 Objectives

* Review contributions submitted for SDS 65.4 and earlier meetings
* Progress the outstanding issue backlog

2 Review & Approval of Agenda

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| [SDS-2024-0109](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=37051&fromList=Y) | [Agenda SDS 65.4](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=37051&fromList=Y) | SDS Chair |

SDS-2024-0109 was AGREED

3 Review & Approval of Previous Minutes

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| [SDS-2024-0106](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=37044&fromList=Y) | [SDS 65.3 Minutes](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=37044&fromList=Y) | Akash Malik |

SDS-2024-0106 was AGREED

4 Review of Open Action and Issue Status

Priority actions are marked with a \*

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| **Number** | **Action** | **Responsible** | **Status** |
| A-SDS-39-01  | TS-0004, clause 8.4.3 – investigate example 3 when an intermediary resource doesn’t have access privilege | Peter | SDS-2019-0344SDS-2019-0302SDS-2019-0186Bob has provided a discussion in [SDS-2023-0236](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=36448&fromList=Y)  |
| A-PRO-26-01 \* | Register CoAP codes with IANA | Peter & Miguel | CoAP codes have now been changed to answer question from IANA expert.IANA expert has replied saying that long CoAP option values do not work too well and has suggested some alternatives. TS-0008 v5 changes have been agreed* Miguel to proceed with IANA registration (R2..R4)
* Numeric values for CoAP media codes also need to be registered with IANA
 |
| A-SDS-62-01 | Need a CR to add call flows in TS-0001 to explain the order in which the SSP-related resources get created and a CR to TS-0004 adjust the text in clause 7.4.20 to match that. | Bob and Poornima |  |
| A-SDS-64-01 | 1. Merge contribution into TS-0022 V4.6 and V5.0 2. Resolve open comments from ETSI Edit Help and merge into 4.6 and 4.5  | Poornima |  |

The issue tracker can be found at <https://git.onem2m.org/issues/issues/issues>

Some matters arising from issue review at SDS 61.1 and 61.3:

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| **Issue**  | **Discussion** | **Resolution** |
| **4** | Consensus reached already. Bob has volunteered to create the CRs | LEFT OPENCRs needed |
| **6** | Related to TS-0004 and Issue #123Additional discussions will occur, and a CR will be created. | LEFT OPEN |
| **22** | To be added to the next TS-0009 baseline – action for SeungMyeong | LEFT OPEN |
| **24** | TS-0009 has not been updated yet | LEFT OPEN |

5 Latest SDS Baselines

Updates to the latest baseline versions are noted below:

|  |  |  |  |  |  |  |  |  |
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| **TS** | **Title** | **Rel-5** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| TS-0001 | Functional Architecture |  | [5.6.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36974&fromList=Y) | [4.22.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36974&fromList=Y) | [3.35.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36774&fromList=Y) | [2.36.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36556&fromList=Y) | SeungMyeong (KETI) | Baseline for 2.37 deferred until we have some CRs against R2[SDS-2024-0029](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=36663&fromList=Y) |
| TS-0003 | Security Solutions |  |  | [4.8.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36602&fromList=Y) | [3.17.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36603&fromList=Y) | [2.21.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36604&fromList=Y) | Wei (Datang) |  |
| TS-0004 | Core Protocol |  |  | [4.20.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36884&fromList=Y) | [3.32.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36772&fromList=Y) | [2.35.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36771&fromList=Y) | Peter (IBM) |  |
| TS-0005 | Management Enablement (OMA) |  |  | [4.0.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30113&fromList=Y) | [3.5.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=21712) | [2.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=18459) | Vacant |  |
| TS-0006 | Management Enablement (BBF) |  |  | [4.0.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30160&fromList=Y) | [3.6.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=19808) | [2.2.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=18611) | Vacant |  |
| TS-0007 | Service Components |  |  | - | - | [2.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=5219) | - | Discontinued |
| TS-0008 | CoAP Binding |  | [5.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36931&fromList=Y) | [4.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36186&fromList=Y) | [3.9.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36185&fromList=Y) | [2.13.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36184&fromList=Y) | Peter (IBM) |  |
| TS-0009 | HTTP Binding |  |  | [4.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36336&fromList=Y) | [3.9.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36335&fromList=Y) | [2.21.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34552&fromList=Y) | SeungMyeong (KETI) |  |
| TS-0010 | MQTT Binding |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35384&fromList=Y) | [3.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32184&fromList=Y) | [2.10.0](../../../../../../TP48/TS-0010) | Peter (IBM) |  |
| TS-0014 | LWM2M Interworking |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35386&fromList=Y) | [3.2.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32895&fromList=Y) | [2.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32894&fromList=Y) | Dale (Convida) |  |
| TS-0016 | Secure Environment Abstraction |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35755&fromList=Y) | [3.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=27187) | - | Colin (BT) |   |
| TS-0020 | WebSocket Binding | In Progress |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35387&fromList=Y) | [3.0.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=29321) | [2.3.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=28780&fromList=Y) | Bob (Exacta) |   |
| TS-0021 | AllJoyn Interworking |  |  | - | - | [2.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26333&fromList=Y) | SeungMyeong (KETI) | Discontinued |
| TS-0022 | Field Device Configuration |  | [5.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36729&fromList=Y) | [4.6.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36891&fromList=Y) | [3.3.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36890&fromList=Y) | [2.7.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36889&fromList=Y) | C-DOT |  |
| TS-0024 | OCF Interworking |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35756&fromList=Y) | [3.2.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=27971) | [2.0.2](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26336&fromList=Y) | Josef (Qualcomm) |  |
| TS-0026 | 3GPP Interworking |  |  | [4.7.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35587&fromList=Y) | [3.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32186&fromList=Y) | - | Peter |  |
| TS-0030 | Ontology Based Interworking |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35397&fromList=Y) | [3.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=26806) | - | Bob (Exacta) |  |
| TS-0032 | MAF/MEF Interface |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35398&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=29322) | [2.1.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=25064&fromList=Y) | Colin (BT) |  |
| TS-0033 | Interworking Framework |  | [5.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35552&fromList=Y) | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35399&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=20678) | - | Vacant |  |
| TS-0034 | Semantics Support |  |  | [4.2.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=30054) | [3.0.2](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30169&fromList=Y) | - | CG (Convida) |  |
| TS-0035 | OSGi Interworking |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35757&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=23506) | - | Jason (Huawei) |  |
| TS-0040 | Modbus Interworking |  |  | [4.0.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35378&fromList=Y) | - | - | JaeSeung (Sejong university) |  |
| TS-0041 | SensorThings interworking | [5.0 - doc](https://git.onem2m.org/specifications/ts-0041/-/blob/7026842ee1b9beff4ae87525805bf56f20c93a80/TS-0041-oneM2M-SensorThings_interworking.md)[5.0 - history](https://git.onem2m.org/specifications/ts-0041/-/network/v5.0.0) |  |  |  |  | Andreas Neubacher (DT) |  |

Updates to the XSDs are noted below:

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| **XSD Type** | **Git Repo** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| TS-0004 | [**link**](https://git.onem2m.org/PRO/XSD) | [v4.20.0](https://git.onem2m.org/XMLSchemas/ts-0004/-/tree/4.20.0) | [v3.31.0](https://git.onem2m.org/PRO/XSD/-/tree/master/v3_31_0) | [v2.35.0](https://git.onem2m.org/PRO/XSD/-/tree/0012fb31be0ff6b1cac35577df5b82f882ed7b7d/v2_35_0) | [v1.12.0](https://git.onem2m.org/PRO/XSD/tree/master/v1_12_0) | Miguel (R4)Peter (R2,R3) | Need new XSDs for 3.32 and tag for 4.21 |
| TS-0022 (Field Device) | [**link**](https://git.onem2m.org/MAS/FDC/tree/master) | [v4.5.0](https://git.onem2m.org/XMLSchemas/ts-0022/-/tree/4.5.0) | [v3.2.0](https://git.onem2m.org/XMLSchemas/ts-0022/-/tree/3.2.0) | [v2.6.0](https://git.onem2m.org/XMLSchemas/ts-0022/-/tree/2.6.0) | - | **TBD** | Compatible with CDT schemas v2.16.0 |
| TS-0032 (MEF/MAF) | [**link**](https://git.onem2m.org/SEC/MAF-MEF/tree/master) | - | - | [v2.1.0](https://git.onem2m.org/SEC/MAF-MEF/tree/master/v2_1_0) | - | **TBD** | Compatible with CDT schemas v2.16.0New R2, R3 and R4 baselines needed that incorporate latest TS-0032Peter will be working on it. |
| TS-0023 (SDT based Information Model and Mapping for Vertical Industries) | [**link**](https://git.onem2m.org/MAS/Home-Appliances) | - | [V3.7.0](https://git.onem2m.org/MAS/Home-Appliances/tree/master/3.7.0) | - | - | Andreas | FlexContainer specializations based on SDT mapping rules Need 4 XSDsAndreas will be looking into it. |
| TS-0005 (OMA) | [**link**](https://git.onem2m.org/MAS/OMA-DM) | - | [v3.0.0](https://git.onem2m.org/MAS/OMA-DM/tree/master/Rel-3) | [v2.0.0](https://git.onem2m.org/MAS/OMA-DM/tree/master/Rel-2) | - | **TBD** | Device Description Framework (DDF) of Management Objects defined in oneM2M TS-0005Further investigation is needed to determine what updates (if any) are needed. Peter will be looking into it. |

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| **TR** | **Title** | **Rel-5 Git** | **Rel-5** | **Rel-4** | **Rel-3** | **Rel-2** | **Rapporteur** | **Comment** |
| TR-0024 | 3GPP Interworking |  |  | [4.3.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=30063) | [3.0.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=29765&fromList=Y) | [2.4.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=13085) | Vacant | Complete (R4) |
| TR-0033 | Enhanced Semantic Enablement |  |  | [4.5.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31093&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=19525) | - | Xu (Convida) | Complete (R4) |
| TR-0036 | Smart City |  | [0.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31042&fromList=Y) | - | - | - | SeungMyeong (KETI) | Not ready to publish |
| TR-0041 | Decentralized Authentication |  | [0.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26293&fromList=Y) | - | - | - | Vacant | Not ready yet |
| TR-0042 | WoT Interworking |  |  | - | [0.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26945&fromList=Y) | - | Yongjing (Huawei) |  |
| TR-0043 | Modbus Interworking |  |  | - | [0.2.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30112&fromList=Y) | - | JaeSeung (Sejong university) | Replaced by TS-0040 Version number not correctJaeSeung to check |
| TR-0044 | Heterogeneous Identification |  |  | - | [0.6.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31631&fromList=Y) | - | Yuan Tao (CNIC) |  |
| TR-0050 | Attribute Based Access Control |  |  | [0.13.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=26548) | - | - | Wei (Datang) |  |
| TR-0052 | Edge and Fog Study |  |  | [0.13.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32633&fromList=Y) | - | - | Vacant |  |
| TR-0053 | Lightweight oneM2M Services |  |  | [0.6.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31776&fromList=Y) | - | - | Dale (Convida) |  |
| TR-0054 | Service Subscribers and Users |  |  | [0.8.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32207&fromList=Y) | - | - | Dale (Convida) | Complete |
| TR-0055 | 3GPP V2X Interworking |  |  | [0.5.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=26533) | - | - | Echo (Huawei) | WI has been terminated. Does this TR need to be published ? |
| TR-0056 | Differences of Rel-2A & Rel-3 |  |  | - | [0.2.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=29075&fromList=Y) | - | Kei (NTT) | Complete |
| TR-0060 | Action triggering enhancements |  |  | [0.2.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31043) | - | - | SeungMyeong (KETI) | Completed – need to update version number to reflect that |
| TR-0062 | oneM2M System Enhancement to Support Privacy Data Protection Regulations |  | [0.4.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35483&fromList=Y) | - | - | - | JaeSeung (KETI) | 0.4.0 revision contains RDM changes only |
| TR-0063 | Effective IoT Communication to Protect 3GPP Networks | In progress | [0.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31370&fromList=Y) | - | - | - | Bob Flynn (Exacta) |  |
| TR-0064 | ZigBee Interworking |  | [0.1.0](https://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31685) | - | - | - | JaeSeung (KETI) |  |
| TR-0065 | SensorThings API Interworking |  | [0.4.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36304&fromList=Y) | - | - | - | Andreas Neubacher (DT) |  |
| TR-0066 | System Enhancement to Support Data License Management |  | [0.4.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=35375&fromList=Y) | - | - | - | JaeSeung (KETI) |  |
| TR-0070 | Enhanced Filtering and Queries | In progress |  |  |  |  | Andreas Kraft | **New baseline is awaiting revision of** [SDS-2024-0077](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=36941&fromList=Y)\*Merge request is closed |
| TR-0071 | AI enablement to oneM2M (Stage 2) |  | [0.0.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36011&fromList=Y) |  |  |  |  |  |
| TR-0076 | Integrating NGSI-LD API in oneM2M | In progress |  |  |  |  | Martin Bauer (NEC) |  |

URN Wiki page - <https://wiki.onem2m.org/index.php?title=OneM2M_URN_Namespace>

5.1 Contributions

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| [SDS-2024-0077R01](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=37049&fromList=Y) | [TR-0070 0.0.1 baseline](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=37049&fromList=Y) | Andreas Kraft (Exacta), Chrille Bareau (Orange) |

Baseline was agreed.

SDS-2024-0077R01 was AGREED

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| [SDS-2024-0108](https://member.onem2m.org/Application/documentApp/documentinfo/default.aspx?documentId=37050) | [Clarifying <schedule> child-resource procedure for <crossResourceSubscription>](https://member.onem2m.org/Application/documentApp/documentinfo/default.aspx?documentId=37050) | Andreas Kraft (Exacta) |

The CR proposes to add the <crossResourceSubscription> resource type to “7.5.1.2.2 Notification for <subscription> resources”, step 3.0. The <notificationSchedule> was changed to <schedule> as former is not a resource type. A revision is expected after addressing changes and removing text mentioned in changes 5,6, and 7 as it was added inadvertently.

SDS-2024-0108R01 was AGREED

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| [SDS-2024-0104](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=37035&fromList=Y) | [AuthenticationProfile\_M2MSubID\_dataTypeCorrection\_mirrorCR\_R5](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=37035&fromList=Y) | C-DOT |

SDS-2024-0104 was AGREED

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| [SDS-2024-0105](https://member.onem2m.org/Application/documentApp/documentinfo/default.aspx?documentId=37037) | [TS-0004: Clarification for setting the notification’s creator attribute](https://member.onem2m.org/Application/documentApp/documentinfo/default.aspx?documentId=37037) | Andreas Kraft (Exacta GSS), Poornima Shandilya (C-DOT) |

This Change Request proposes a change to <subscription> notification procedures in TS-0004.

In addition to some editorial corrections, it was also suggested to investigate whether subscription deletion is for Release 5 only. Revision is expected.

SDS-2024-0105 was NOTED

7 Planning for next Meetings

7.1 Conference Calls Schedule

7.2 Next TP Meeting

TP 66 Sophia Antipolis Sep 9th to 13th.

8 Any other business

None

9 Closure of meeting

SDS 65.4 ended at 10:30 (UTC).