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| --- |
| MINUTES |
| Meeting title: | SDS 41.2 |
| Chair: | Dale Seed, Convida Wireless, dale.seed@interdigital.com  |
| Vice-Chairs: | SeungMyeong Jeong, KETI, sm.jeong@keti.re.kr Wei Zhou, Datang, zhouwei@catt.cn Peter Niblett, IBM, peter\_niblett@uk.ibm.com |
| Secretary: | Victoria Mitchell, TIA, vmitchell@tiaonline.org   |
| Meeting Date: | 8 August 2019 |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |

oneM2M Notice

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1 Opening of the meeting

1.1 Welcome

Dale Seed, Chair, opened the SDS41.2 meeting on 8 August 2019 at 12:03 (UTC).

1.2 Objectives

The objectives, as listed on the agenda, were reviewed.

1.3 Attendees

The attendees, as captured by GoToMeeting were:

Bob Flynn,

Catalina Mladin, catalina.mladin@InterDigital.com

Chengsui Lu, cslu@hitachi.cn

Dale Seed, SeedDN@InterDigital.com

Kei Harada (NTT)

Kenichi Yamamoto, kc-yamamoto@kddi.com

Peter Niblett,

Preeti (C-DOT), preetir@cdot.in

SeungMyeong (KETI), csc@keti.re.kr

Siddharth (C-DOT), strikha@cdot.in

[Itron] Gene Falendysz, gene.falendysz@itron.com

Victoria Mitchell, vmitchell@tiaonline.org

2 Review & Approval of Agenda

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| --- | --- | --- |
| [SDS-2019-0427R01](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30422&fromList=Y) | [Agenda\_SDS\_41\_2](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30422&fromList=Y) | SDS Chair |

SDS-2019-0427R01 was AGREED

3 Review & Approval of Previous Minutes

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| --- | --- | --- |
| [SDS-2019-0422](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30396&fromList=Y) | [Minutes SDS 41.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30396&fromList=Y) | Karen Hughes, Secretary |

SDS-2019-0422 was previously AGREED by correspondence

4 Action Item Status

Updates to the action items are noted below:

| **Number** | **Action** | **Responsible** | **Status** |
| --- | --- | --- | --- |
| A-SDS-41.2-01 | XSD needs to be updated to allow m2m:URIList data type to have an empty list (i.e. no elements) | Peter |  |
| A-SDS-40.4-1 | A-SDS-40.4-01: follow-up on the Discovery/Retrieval/RCN discussion* Peter to update the slides and correct any typos/errors
* Peter to update the slides with the answers from Catalina
* Catalina to correct any mis-matches between the ARC & PRO contributions
* Peter to highlight any actions or points that need to be clarified
* Peter to make a list other CRs and corrections that are needed
* Peter to propose filterUsage and RCN values
 | Peter, Catalina | Achieved consensus on a way forward. Catalina & Leila will prepare contributions to be presented at the next call.This will be the focus of the next call |
| A-SDS-40.1-1 | Consider and if necessary create R2 mirror for:SDS-2019-0104R03-Add\_missing\_attributes\_of\_ACP\_resource (see change 3) | Wei |  |
| A-SDS-40.1-2 | Consider and if necessary create R2 mirror for:SDS-2019-0116R01-TS0004-CR\_semantics\_related\_editorial\_fixes SDS-2019-0148R01-CR\_remove\_schedule\_resource\_R3 SDS-2019-0299R01-TS0004-A\_39\_2-1 | Convida |  |
| A-SDS-39.1-1 | Need to add support for notify response in clause 8.1.2 in TS-0001 to indicate additional RCN values in the notification response | Dale |  |
| 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-2019-0186Need Peter to be present to close this action |
| A-SDS-39-02 | Follow up action related to SDS-2019-0050 on areaNwkInfo, C-DOT to investigate the concepts of areaNwkInfo and the area network device | C-DOT | Need C-DOT to be present to close this action |
| A-SDS-39-08 | Per PRO-2018-0269R01, Bob to follow-up and consider the time out scenario in TS-0004 clause 7.5.1.2.19 | Bob | 5/19/2019 – Bob commented he has to research this more.Bob will work with Peter to ensure that he has addressed his concerns |
| A-SDS-39-09 | ARC-2018-0047R01 was agreed in TP33. However, it was not integrated into TS-0001. The issue addressed by ARC-2018-0047R01 still needs to be addressed | Bob | 5/19/2019 – Bob commented he has to research this more. |
| A-PRO-16-02 | Investigate MQTT Binding on Mcc’ | SeungMyeong & Peter  | 5/19/2019 – Peter is going to consider a contribution. Need to decide if we want to put the effort into supporting use of MQTT over Mcc’ or not. |
| A-PRO-24.2-01 | Provide more information on SPARQL errors  | Bob Flynn |  |
| A-PRO-26-01 | Register CoAP codes with IANA | Peter & Laurent | This issue is oneM2M is using option numbers for “critical” and “elective” type options but should only be using “critical”. This would require oneM2M to renumber its options. Peter to put contribution for us to review. |
| A-PRO-33-01 | Raise CR to add procedure for *networkCoordinated* attribute | Bob |  |
| A-PRO-34.2-03 | TS-0008. Use of non-confirmable needs to be clarified. Is the receiver required to treat a non-confirmable request (other than multicast) as an error?  | Peter |  |
| A-ARC-35-02 | Review the associated reference points in the tables in clause 10 of TS-0001 | SeungMyeong | SeungMyeong to bring in CRs to remove “associated reference point” columns from TS-0001 R2/R3/R4 and TS-0034 |
| A-SEC-33-02  | Open issues found in TST-0010:Deriving nodeID from <serviceSubscribedAppRule>Define credential-IDs for certificatesUse of Wildcard “\*” in certificates?Include CSE registration credentials in service subscription?Consider certificates that would include an App-ID | Dale | This action item can be resolved once a joint SDS/TST session is held. |
| A-SEC-33-03 | Check whether AE impersonation prevention could also apply to CSE | Dale & SeungMyeong | SDS-2019-0274 Consult with KETI on whether contribution is ok? |

5 Latest Baseline Versions

Updates to the latest baseline versions are noted below:

| **TS** | **Title** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TS-0001 | Functional Architecture | [4.1.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30069&fromList=Y) | [3.16.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30068&fromList=Y) | [2.24.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30070&fromList=Y) | [1.18.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=12297) | Weixiang (ZTE) | New baselines with TP41 CRs agreed and need to be uploaded to WPM (v4.2.0, v3.17.0, v2.25.0) |
| TS-0003 | Security Solutions | - | [3.10.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=19745) | [2.14.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=15898) | [1.7.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=11339) | Wei (Datang) |   |
| TS-0004 | Core Protocol | - | [3.12.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30095&fromList=Y) | [2.22.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30096&fromList=Y) | [1.13.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=2998) | Peter (IBM) | New baselines with TP41 CRs uploaded to SDS for review (v3.12.0, v2.23.0) |
| 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) | [1.4.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=4635) | Looking for a Rapporteur |   |
| 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) | [1.1.4](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=4659) | Looking for a Rapporteur |   |
| TS-0007 | Service Components | - | - | [2.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=5219) | - | - |   |
| TS-0008 | CoAP Binding | - | [3.4.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=28824) | [2.9.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=28823) | [1.6.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=21632) | Dale (Convida) |   |
| TS-0009 | HTTP Binding | - | [3.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30171&fromList=Y) | [2.17.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30170&fromList=Y) | [1.10.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=13986) | SeungMyeong (KETI) |   |
| TS-0010 | MQTT Binding | - | [3.0.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=29320) | [2.8.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26486&fromList=Y) | [1.8.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26485&fromList=Y) | Peter (IBM) |   |
| TS-0014 | LWM2M Interworking | - | [3.1.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=10091) | [2.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26330&fromList=Y) | - | Dale (Convida) |   |
| TS-0016 | Secure Environment Abstraction | - | [3.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=27187) | - | - | Colin (BT) |   |
| TS-0020 | WebSocket Binding | - | [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(Convida) |   |
| TS-0021 | AllJoyn Interworking | - | - | [2.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26333&fromList=Y) | - | SeungMyeong (KETI) |   |
| TS-0022 | Field Device Configuration | [4.0.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=28086) | [3.0.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=27621) | [2.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=27615&fromList=Y) | - | C-DOT | New baseline that incorporates TP41 CRs needed |
| TS-0024 | OCF Interworking | - | [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 | [4.1.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30160&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=18728) | - | - | Echo (Huawei) | New baselines with TP41 CRs agreed but need to be uploaded to WPM (v4.2.0, v3.2.0) |
| TS-0030 | Ontology Based Interworking | - | [3.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=26806) | - | - | Vacant |   |
| TS-0032 | MAF/MEF Interface | - | [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 | - | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=20678) | - | - | Josef (Qualcomm) |   |
| TS-0034 | Semantics Support | [4.0.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30054&fromList=Y) | [3.0.2](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30169&fromList=Y) | - | - | CG (Convida) |   |
| TS-0035 | OSGi Interworking | - | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=23506) | - | - | Jason (Huawei) |   |

Updates to the XSDs are noted below:

Once the TS-0004 baseline is agreed, we’ll reach out to Wolfgang to ask that he incorporate the TP40 and TP41 contributions into the XSDs.

| **XSD Type** | **Git Repo** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TS-0004 | [link](https://git.onem2m.org/PRO/XSD) | - | [v3.11.0](https://git.onem2m.org/PRO/XSD/tree/master/v3_11_0) | [v2.21.0](https://git.onem2m.org/PRO/XSD/tree/master/v2_21_0) | [v1.9.0](https://git.onem2m.org/PRO/XSD/tree/master/v1_9_0) | Wolfgang | New R2 & R3 baselines needed that incorporate updates for TP40 and TP41 CRs for TS-0004 |
| TS-0022 (Field Device) | [link](https://git.onem2m.org/MAS/FDC/tree/master) | - | [v3.0.0](https://git.onem2m.org/MAS/FDC/tree/master/v3_0_0) | [v2.3.0](https://git.onem2m.org/MAS/FDC/tree/master/v2_3_0) | - | Wolfgang | Compatible with CDT schemas v2.16.0New R2 & R3 baselines needed that incorporate latest TS-0022 |
| 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) | - | Wolfgang | Compatible with CDT schemas v2.16.0New R2 & R3 baselines needed that incorporate latest TS-0032 |
| 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   |
| 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) | - | Wolfgang | Device Description Framework (DDF) of Management Objects defined in oneM2M TS-0005Not clear what is needed  |
| TS-0006 (BBF) | [link](https://git.onem2m.org/MAS/TR69Model) | - | - | - | - | Laurent | TR-069 Data model oneM2M TR-181i2 Data Model DefinitionNot clear what is needed |

Updates to the TRs are noted below:

| **TR** | **Title** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TR-0024 | 3GPP Interworking | [4.1.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30063&fromList=Y) | [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) | - | Weixiang (ZTE) | Baseline that incorporates TP40 CRs agreed and uploaded to WPM (v4.1.0) |
| TR-0033 | Enhanced Semantic Enablement | [4.3.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30097&fromList=Y) | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=19525) | - | - | CG (Convida) | New baseline that incorporates TP41 CRs agreed and needs uploading to WPM (4.4.0) |
| TR-0036 | Smart City | - | [0.3.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=27572&fromList=Y) | - | - | SeungMyeong (KETI) | New baseline that incorporates TP41 CRs needed |
| TR-0041 | Decentralized Authentication | - | [0.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26293&fromList=Y) | - | - | Jie Shi (Huawei) |   |
| 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 (KETI) | New baseline that incorporates TP41 CRs needed |
| TR-0044 | Heterogeneous Identification | - | [0.5.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=21344) | - | - | Yuan Tao (CNIC) | New baseline that incorporates TP41 CRs needed |
| TR-0046 | Disaster Alert Service Enabler | - | [0.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=21832&fromList=Y) | - | - | SeungMyeong (KETI) |   |
| TR-0050 | Attribute Based Access Control | [0.10.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30418&fromList=Y) | - | - | - | Wei (Datang) | New baseline with TP41 CRs uploaded to WPM (v0.10.0) |
| TR-0052 | Edge and Fog Study | [0.8.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30412&fromList=Y) | - | - | - | Kenichi (KDDI) | New baseline with TP41 CRs uploaded to WPM (v0.8.0) |
| TR-0053 | Lightweight oneM2M Services | [0.3.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30041&fromList=Y) | - | - | - | Dale (Convida) | New baseline that incorporates TP41 CRs needed |
| TR-0054 | Service Subscribers and Users | [0.5.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30042&fromList=Y) | - | - | - | Dale (Convida) |   |
| TR-0055 | 3GPP V2X Interworking | [0.4.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30384&fromList=Y) | - | - | - | Echo (Huawei) | New baseline with TP41 CRs agreed but needs to be uploaded to WPM (v0.5.0) |
| TR-0056 | Differences of Rel-2A & Rel-3 | [0.2.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=29075&fromList=Y) | - | - | - | Kei (NTT) |   |
| TR-0057 | Getting started with oneM2M | [0.3.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=28787) | - | - | - | Laurent (ETSI) |   |
| TR-0059 | Services and Platforms Discovery | [0.2.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30111&fromList=Y) | - | - | - | JaeSeung (KETI) |   |
| TR-0060 | Action triggering enhancements | [0.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=29342&fromList=Y) | - | - | - | SeungMyeong (KETI) | New baseline that incorporates TP40 CRs needed |

6 Contributions

*Note: Contributors who are defining new Resource Types are advised to read the checklist in* [*PRO-2016-0125R02*](http://member.onem2m.org/Application/documentapp/downloadimmediate/default.aspx?docID=17172)*.*

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| [SDS-2019-0407](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30354&fromList=Y) | [TS-0004 v3.13.0 baseline](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30354&fromList=Y) | IBM |

Bob needs a bit more time to review this and confirm some of the wording. Bob will reach out to Peter so they can agree on the wording, after which it’ll be brought back into SDS.

**SDS-2019-0407 remains OPEN**

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| [SDS-2019-0406](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30353&fromList=Y) | [TS-0004 v2.23.0 baseline](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30353&fromList=Y) | IBM |

Bob needs a bit more time to review this and confirm some of the wording. Bob will reach out to Peter so they can agree on the wording, after which it’ll be brought back into SDS.

**SDS-2019-0406 remains OPEN**

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| [PRO-2018-0244R07](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30404&fromList=Y) | [TS-0004 discovery-based operations](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=30404&fromList=Y) | Convida, Orange |

This is a companion CR to ARC-2018-0348, implementing protocol -level details for Discovery-based operations, as well as some corrections and clarifications for the discovery operation.

This contribution was updated to include the contributions agreed during TP41.

Offline meetings will be held with interested parties to bring this contribution into a state where approval during TP42 is possible.

Revision expected.

**PRO-2018-0244R07 was NOTED**

7 Planning for next Meetings

7.1 Next Conference Calls

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Time (UTC)** |
| SDS 41.1 | Thurs 25-Jul-2019 | 12:00 – 13:30 |
| SDS 41.2 | Thurs 08-Aug-2019 | 12:00 – 13:30 |
| SDS 41.3 | Thurs 22-Aug-2019 | 12:00 – 13:30 |
| SDS 41.4 | Thurs 05-Sep-2019 | 12:00 – 13:30 |

7.2 Face to Face Meetings

SDS42 – 23-27 September 2019 – Hyderabad, India

8 Any other business

None

9 Closure of meeting

SDS41.2 ended at 13:35 (UTC).