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| --- |
| MINUTES |
| Meeting title: | SDS 50.6 |
| 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 Poornima Shandilya, C-DOT, poornima@cdot.in |
| Secretary: | Victoria Mitchell, TIA, vmitchell@tiaonline.org   |
| Meeting Date: | 13 July 2021 |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |

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1 Opening of the meeting

1.1 Welcome

Peter Niblett, Chair, opened the SDS50.6 meeting on 13 July 2021 at 12:04 (UTC). Participants were reminded to familiarize themselves with the participation notices.

1.2 Objectives

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

1.3 Attendees

The attendees, as captured by GoToMeeting were:

Andreas Kraft, andreas.kraft@t-systems.com

Andreas Neubacher, andreas.neubacher@magenta.at

Bob Flynn, bob.flynn@exactagss.com

Dale Seed, dale.seed@interdigital.com

Demetrius Davis (US DoD/MITRE), demetrius.l.davis7.ctr@mail.mil

Ingo Friese DTAG

Jagan, C-DOT

Joachim Koss, joachim.koss@jk-conpro.de

Jörg Schneider (BNetzA)

Kenichi Yamamoto – KDDI, kc-yamamoto@kddi-std.jp

Marianne Mohali, marianne.mohali@orange.com

Massimo Vanetti (SBS), massimo@massimov.onmicrosoft.com

Peter Niblett, peter\_niblett@uk.ibm.com

Poornima Shandilya, poornima@cdot.in

Rahul (C-DOT)

Rana Kamill, rana.kamill@bt.com

Sachin (C-DOT)

SeungMyeong, sm.jeong@keti.re.kr

Siddharth (C-DOT)

Victoria Mitchell, vmitchell@tiaonline.org

2 Review & Approval of Agenda

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| --- | --- | --- |
| [SDS-2021-0182](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33860&fromList=Y) | [Agenda SDS 50.6](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33860&fromList=Y) | SDS Chair |

SDS-2021-0182 was AGREED

3 Review & Approval of Previous Minutes

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| --- | --- | --- |
| [SDS-2021-0179](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33853&fromList=Y) | [Minutes SDS 50-5](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33853&fromList=Y) | Karen Hughes, Secretariat |

SDS-2021-0179 was under 7-day electronic review.

4 Review of Open Action and Issue Status

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

Updates to the open action items are noted below:

| **Number** | **Action** | **Responsible** | **Status** |
| --- | --- | --- | --- |
| A-SDS-50.1-01 | In TS-0004 clause 7.3.2.1 we need to agree how a Registrar or Hosting CSE determines the relevant service subscription resources and accesses these resources and what privileges are required if they are not provisioned and stored locally.   | Convida & CDOT |  |
| A-SDS-49-01 | In TS-0004 clause 7.4.22.2.0 (PollingChannelURI) – Need to firm up if Error needs to be generated for Notify scenario or not.  Currently Notify functionality is defined in clause 7.4.22.2.5 and further analysis is needed to determine what scenario this applies to and if it is valid. | Dale & Peter |  |
| A-SDS-44.1-01 \* | Check the strategy with the flexContainer instance functionality and firm up the schema definitions versus the flexContainerOnce the schema strategy is firmed up need to revisit latest and oldest functionality of the flexContainer | Marianne | Are there any lingering questions/issues with latest and oldest functionality? |
| A-SDS-43-01 | For TS-0004, look to add a procedure to clarify when to return NOT\_IMPLEMENTED status code when a request for an unsupported resource type or parameter is received.  | Convida |  |
| A-SDS-42-01 \* | As it relates to contribution SDS-2019-0475R01, look at implications of aggregated responses with respect to primitive profile | 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 | Convida |  |
| 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 & Peter will go through these contributions and report back  |
| 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 actionDale asked C-DOT to look into this. |
| 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 | Discussed during SDS 47 and plan was firmed up. Contribution needed to make updates to TS-00081) Replace the text that says that senders "SHALL use Confirmable" with a "SHOULD use Confirmable" (or whatever our equivalent of RFC 2119 SHOULD is) 2) Add text to explain that you should only use Non-Confirmable if there's a particular reason for doing so, and suggest that you shouldn't do it if your originator is relying on a response 3) Change the text and figures that are assuming Non-confirmable  (or add a comment to say that they only show the case where confirmable is being used) and clarify that incoming non-confirmable messages are to be processed by the TS-0004 level oneM2M code.covered by contribution SDS-2020-0374 |
| A-PRO-26-01 \* | Register CoAP codes with IANA | Peter & Laurent | At SDS44, Peter prepared a contribution which is still under discussionSDS-2020-0065R01Reviewed at SDS45Peter will check this contribution and allocate to future meeting |
| A-PRO-24.2-01 | Provide more information on SPARQL errors  | Bob & SeungMyeong | Bob will look through the errors and try to resolve the issue |

5 Latest SDS Baselines

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 | [4.11.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33796&fromList=Y) | [3.24.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33795&fromList=Y) | [2.30.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33794&fromList=Y) | [1.18.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=12297) | Marianne(Orange) |  |
| TS-0003 | Security Solutions | [4.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33817&fromList=Y) | [3.15.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33816&fromList=Y) | [2.18.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33815&fromList=Y) | [1.7.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=11339) | Wei (Datang) |  |
| TS-0004 | Core Protocol | [4.6.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33818&fromList=Y) | [3.22.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33819&fromList=Y) | [2.29.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33800&fromList=Y) | [1.13.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=2998) | 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) | [1.4.1](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=4635) | 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) | [1.1.4](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=4659) | Vacant |  |
| TS-0007 | Service Components | - | - | [2.0.2](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=5219) | - | - |  |
| TS-0008 | CoAP Binding | [4.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33503&fromList=Y) | [3.6.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32587&fromList=Y) | [2.10.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31084&fromList=Y) | [1.6.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=21632) | Dale (Convida) |  |
| TS-0009 | HTTP Binding | [4.2.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33584&fromList=Y) | [3.7.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33585&fromList=Y) | [2.19.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33419&fromList=Y) | [1.10.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=13986) | SeungMyeong (KETI) |  |
| TS-0010 | MQTT Binding | - | [3.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32184&fromList=Y) | [2.10.0](../../../../TP48/TS-0010) | [1.8.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26485&fromList=Y) | Peter (IBM) |  |
| TS-0014 | LWM2M Interworking | - | [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 | - | [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 | [4.2.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33381&fromList=Y) | [3.0.3](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33387&fromList=Y) | [2.4.2](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33386&fromList=Y) | - | C-DOT |  |
| 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 | [4.6.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33174&fromList=Y) | [3.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32186&fromList=Y) | - | - | Kenichi (KDDI) |  |
| 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 | [4.2.0](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 | - | [3.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=23506) | - | - | Jason (Huawei) |  |
| TS-0040 | Modbus Interworking | [0.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32500&fromList=Y) | - | - | - | JaeSeung (KETI) |  |

Updates to the XSDs are noted below:

| **XSD Type** | **Git Repo** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **Rapporteur** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TS-0004 | [link](https://git.onem2m.org/PRO/XSD) | - | [v3.22.0](https://git.onem2m.org/PRO/XSD/tree/master/v3_22_0) | [v2.29.0](https://git.onem2m.org/PRO/XSD/tree/master/v2_29_0) | [v1.12.0](https://git.onem2m.org/PRO/XSD/tree/master/v1_12_0) | Peter | One change implemented for v3.22 and v2.29New R4 baselines needed  |
| 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) | - | TBD | Compatible with CDT schemas v2.16.0New R2, R3 and R4 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) | - | TBD | Compatible with CDT schemas v2.16.0New R2, R3 and R4 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) | - | TBD | Device Description Framework (DDF) of Management Objects defined in oneM2M TS-0005Further investigation is needed to determine what updates (if any) are needed.  |

Updates to the TRs are noted below:

| **TR** | **Title** | **Rel-5** | **Rel-4** | **Rel-3** | **Rel-2** | **Rel-1** | **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 |  |
| 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) |  |
| TR-0036 | Smart City |  | - | [**0.4.0**](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31042&fromList=Y) | - | - | SeungMyeong (KETI) |  |
| TR-0041 | Decentralized Authentication |  | - | [**0.4.0**](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=26293&fromList=Y) | - | - | Vacant |  |
| 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) |  |
| TR-0044 | Heterogeneous Identification |  | - | [**0.6.0**](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31631&fromList=Y) | - | - | Yuan Tao (CNIC) |  |
| 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 |  | [**0.13.0**](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) | - | - | - | Kenichi (KDDI) |  |
| 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) |  |
| TR-0055 | 3GPP V2X Interworking |  | [**0.5.0**](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=26533) | - | - | - | Echo (Huawei) |  |
| 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 |  | [**0.6.0**](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33407&fromList=Y) | - | - | - | 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 |  | [**0.2.0**](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31043) | - | - | - | SeungMyeong (KETI) |  |
| TR-0062 | oneM2M System Enhancement to Support Privacy Data Protection Regulations | [**0.3.0**](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33146&fromList=Y) | - | - | - | - | JaeSeung (KETI) |  |
| TR-0063 | Effective IoT Communication to Protect 3GPP Networks | [**0.0.1**](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31370&fromList=Y) | - | - | - | - | Bob Flynn (Convida) |  |
| TR-0064 | ZigBee Interworking | [**0.1.0**](https://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31685) | - | - | - | - | JaeSeung (KETI) |  |
| TR-0065 | SensorThings API Interworking | [**0.0.1**](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32023&fromList=Y) | - | - | - | - | Andreas Neubacher (DT) |  |
| TR-0066 | System Enhancement to Support Data License Management | [**0.3.0**](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33583&fromList=Y) | - | - | - | - | JaeSeung (KETI) |  |

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-2021-0181R01](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33867&fromList=Y) | [Introduction of new resource types for Advanced Semantic Discovery](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33867&fromList=Y) | JK Consulting & Projects |

Introduction of new resource types for Advanced Semantic Discovery (ASD) derived from the ASD concept already identified and agreed in TR001 “Use Cases Collection” and TS-0002 “Requirements”.

This contribution is for R5.

Revision expected.

SDS-2021-0181R01 was NOTED

|  |  |  |
| --- | --- | --- |
| [SDS-2021-0180](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33855&fromList=Y) | [enum\_areaNwkType\_R4](https://member.onem2m.org:443/Application/documentApp/documentinfo/?documentId=33855&fromList=Y) | C-DOT |

This CR aims to provide an enumeration for various possible values of areaNwkType attribute of <areaNwkInfo> resource. Presently, the value of areaNwkType can be any string whereas this CR aims to bind value of this attribute to a specific set of values only.

This CR aims to close follow up action item ‘A-SDS-39-02’ related to SDS-2019-0050 on areaNwkInfo.

Revision expected.

SDS-2021-0180 was LEFT OPEN

7 Planning for next Meetings

7.1 Conference Calls Schedule

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Time (UTC)** |
| SDS50.7 | Aug 5th | 12:00-13:30 |

7.2 SDS51 Virtual Meetings (Tentative)

TP 51, Aug 30 – Sep 17

7.3 Face to Face Meetings

TBD

8 Any other business

None

9 Closure of meeting

SDS50.6 ended at 13:35 (UTC).