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| MINUTES |
| Meeting title: | SDS 45.3 |
| 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:  | 18 June 2020 |
| 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 SDS45.3 meeting on 18 June 2020 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:

(BT Plc) Colin Blanchard, colin.blanchard@bt.com

Bob, flynn.bob@convidawireless.com

Dale Seed, SeedDN@InterDigital.com

Enrico Scarrone, enrico.scarrone@telecomitalia.it

Francisco da Silva - Huawei Sweden, Francisco.daSilva@huawei.com

Kenichi Yamamoto, kc-yamamoto@kddi.com

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

Laurent Velez (ETSI), laurent.velez@etsi.org

Marianne Mohali (Orange), marianne.mohali@orange.com

Miguel Angel Reina Ortega, miguelangel.reinaortega@etsi.org

Neubacher, Andreas (Deutsche Telekom), andreas.neubacher@magenta.at

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

Poornima,

Prateek Varshney,

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

Roland Hechwartner, roland.hechwartner@magenta.at

Victoria Mitchell, vmitchell@tiaonline.org

2 Review & Approval of Agenda

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| --- | --- | --- |
| [SDS-2020-0196](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32219&fromList=Y) | [Agenda\_SDS\_45\_3](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32219&fromList=Y) | SDS Chair |

SDS-2020-0196 was AGREED

3 Review & Approval of Previous Minutes

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| --- | --- | --- |
| [SDS-2020-0192](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32208&fromList=Y) | [Minutes SDS 45-2](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32208&fromList=Y) | Karen Hughes, ETSI |

SDS-2019-0192 was under review by correspondence and will be AGREED at the end of the review period.

4 Action Item Status

Updates to the open action items are noted below:

| **Number** | **Action** | **Responsible** | **Status** |
| --- | --- | --- | --- |
| 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 |  |
| 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 a 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 | Dale |  |
| 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 | Need to check the data types in TS-0004 |
| 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 | Bob |  |
| 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 | C-DOT will check to see if this can be closed |
| A-PRO-24.2-01 | Provide more information on SPARQL errors  | Bob & SeungMyeong |  |
| A-PRO-26-01 | Register CoAP codes with IANA | Peter & Laurent | At SDS44, Peter prepared a contribution which is still under discussionSDS-2020-0065 |
| 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-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. |

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 | [4.5.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=29528) | [3.20.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=20290) | [2.27.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=12298) | [1.18.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=12297) | Weixiang (ZTE) | New v4.6.0 baseline marked as noted but should be agreed and needs uploading to WPMThis baseline is now marked as AGREED on the Portal and will be uploaded to the WPM. |
| TS-0003 | Security Solutions | [4.2.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32192&fromList=Y) | [3.12.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=19745) | [2.15.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=12983) | [1.7.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=11339) | Wei (Datang) |  |
| TS-0004 | Core Protocol | [4.0.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31772&fromList=Y) | [3.17.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32215&fromList=Y) | [2.26.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31762&fromList=Y) | [1.13.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=2998) | Peter (IBM) | v4.1.0 baseline uploaded for review |
| 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 | [4.0.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31474) | [3.5.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31085&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 | - | [3.5.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31202&fromList=Y) | [2.18.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31203&fromList=Y) | [1.10.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=13986) | SeungMyeong (KETI) | New v4.0.0 baseline that incorporates SDS 43 CRs agreed and needs uploading to WPM.  |
| TS-0010 | MQTT Binding | - | [3.1.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32184&fromList=Y) | [2.10.0](TS-0010) | [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 | [4.1.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31061&fromList=Y) | [3.0.2](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31062&fromList=Y) | [2.4.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31063&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 | [4.5.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32185&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 | [0.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31773&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) | - | [v3.11.0](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 and R4 baselines needed that incorporate updates for TP40 - TP45 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 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) | - | Wolfgang | 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 New XSDs were generated and are on a different branch that hasn't yet been released. The information that displays under the MAS WG repository isn't matching what Dale is tracking on his agenda. We need to have a closer look and confirm what oneM2M is generating, what we're keeping from other places and if a repository for those items is necessary. This would be a good topic for a SDS/RDM joint meeting. |
| 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-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) | - | Weixiang (ZTE) |  |
| 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) | - | - | 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) |  |
| 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 |  | [0.12.0](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32187&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 |  | [0.3.0](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 |  | [0.2.0](http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=31043) | - | - | - | SeungMyeong (KETI) |  |
| TR-0062 | oneM2M System Enhancement to Support Privacy Data Protection Regulations | [0.1.0](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31723&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 | [0.0.1](http://member.onem2m.org/Application/documentApp/documentinfo/?documentId=31685&fromList=Y) | - | - | - | - | JaeSeung (KETI) |  |
| TR-0065 | SensorThings API Interworking | [0.0.1](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32023&fromList=Y) |  |  |  |  | Andreas Neubacher (DT) |  |

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-2020-0193](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32216&fromList=Y) | [TS-0004 v4.1.0 baseline](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32216&fromList=Y) | IBM |

Data Generation Time (to be updated by Andreas Kraft) will be based upon this version of the baseline.

SDS-2020-0193 will be uploaded to the WPM.

SDS-2020-0193 was AGREED

|  |  |  |
| --- | --- | --- |
| [SDS-2020-0139R04](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32156&fromList=Y) | [TS-0003\_NodeIDCertificate\_R4](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32156&fromList=Y) | C-DOT |

Revision expected.

SDS-2020-0139R04 was NOTED

|  |  |  |
| --- | --- | --- |
| [SDS-2020-0195](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32218&fromList=Y) | [TS-0001\_forwarding\_description\_R3](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=32218&fromList=Y) | Miguel Angel Reina Ortega, ETSI |

This CR proposes to clarify the description of the forwarding mechanism which seems to be ambiguous with the actual text as a CSE-ID different than the Hosting CSE CSE-ID can appear in the To parameter (targeting a remoteCSE resource).

Revision expected and mirrors will be created.

SDS-2019-0195 was NOTED

7 Planning for next Meetings

7.1 Conference Calls Schedule

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Time (UTC)** |
| SDS45.1 | 6/4 | 12:00 – 13:30 |
| SDS45.2 | 6/11 | 12:00 – 13:30 |
| SDS45.3 | 6/18 | 12:00 – 13:30 |
| SDS45.4 | 6/26 | 12:00 – 13:30 |

7.2 SDS46 Virtual Meetings (Tentative)

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Time (UTC)** |
| SDS46 (1+2) | 7/8 | 12:00 – 15:00 |
| SDS46 (3+4) | 7/9 | 12:00 – 15:00 |
| SDS46 (5+6) | 7/13 | 12:00 – 15:00 |
| SDS46 (7+8) | 7/15 | 12:00 – 15:00 |
| SDS46 (9+10) | 7/20 | 12:00 – 15:00 |
| SDS46 (11+12) | 7/22 | 12:00 – 15:00 |
| SDS46 (13+14) | 7/23 | 12:00 – 15:00 |

7.3 Face to Face Meetings

TBD

8 Any other business

None

9 Closure of meeting

SDS45.3 ended at 13:33 (UTC).