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| MINUTES |
| Meeting title: | RDM #63 |
| Chair: | Massimo Vanetti, SBS aisbl, massimovanetti@gmail.com TaeHyun KIM, SyncTechno, thyun.kim@synctechno.com  |
| Secretary: | Michael KIM, TTA, yjkim@tta.or.kr |
| Meeting Date: | 2024-02-26 to 2024-03-01 |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |

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1 Opening of the meeting

1.1 Welcome

Massimo Vanetti, RDM Chair, opened the RDM 63 meeting and welcomed the delegates. Participants were advised to read the oneM2M legal notice on the cover page of the agenda.

1.2 Objectives

1.3 Schedule

Massimo noted that RDM 63 includes 4 sessions at this TP.

2 Review & Approval of Agenda

Note: the agenda applies to all sessions of RDM#63, please refer to the latest version of RDM#63 Tdoc Allocation for contribution and time slots status.

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| [DM-2024-0004R01](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36643&fromList=Y) | [RDM\_63\_Agenda](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36643&fromList=Y) | RDM Chair |
| [RDM-2024-0003R01](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36642&fromList=Y) | [RDM\_63\_TDoc\_Allocation](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36642&fromList=Y) | RDM Chair |

RDM-2024-0004R01 was AGREED.

RDM-2024-0003R01 was AGREED.

3 Review & Approval of Previous Minutes

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| RDM-2023-0064R01 | RDM#62 minutes | DRAFT | Minutes | 2023-12-08 |
| RDM-2024-0002 | RDM#62.1 minutes | DRAFT | Minutes | 2024-02-26 |

RDM-2023-0064R01 was AGREED.

RDM-2024-0002 was AGREED.

4 Review of open action & WI status

4.1 WI Status

WI-0015 - oneM2M Use Case: no changes.

WI-0098 - IoT for Smart Lifts 40%: no changes

WI-0104 - SDT based Information Model and Mapping for Vertical Industries (Rel.5): 75%

TS-0023 is a collection of diverse SDTs, entries are being added over time on as needed basis by contributors, it is a continuously ongoing task. The current content is already consistent and fit for the current release.

WI-0110 - Enablement of IoT in the metaverse (MetaIoT): 15%

WI-0118 – Digital Twin enablement in oneM2M

 Discussion just beginning in TP#63, more progress expected in next TP.

4.2 TS Status

NOTE:
 New rapporteurs appointed for selected document

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| TS | Title | Rel-5 | Rel-4 | Rel-3 | Rapporteur | Comment |
| TS-0002 | Requirements  | 5.0.0 | 4.8.0 | 3.1.2 | SeungMyeong Jeong (KETI) |  |
| TS-0023 | SDT based Information Model and Mapping for Vertical Industries | 5.2.0  | 4.10.0 |  | Andreas Kraft (Deutsche Telekom) | Start using TS-0023 as a testbed for GitLab based processing (this implies a new baseline) |

4.3 TR Status

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| TR | Title | Rel-5 | Rel-4 | Rel-3 | Rapporteur | Comment |
| TR-0001 | Use Cases Collection | 5.0.0 | 4.4.0 | 3.1.1 | Massimo Vanetti (SBS) | No progress  |
| TR-0059 | oneM2M services and platforms discovery | 0.2.0 | 0.2.0 |  | JaeSeung Song (Sejong University)  | No progress |
| TR-0069 | Metaverse IoT |  |  |  | Co- Rapporteurs:JaeSeung Song (Sejong University) & SeungMyeong Jeong (KETI) | 15%extend schedule to TP #65 |

4.4 Action Items

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| Number | Action | Responsible | Status |
| None  |  |  |  |

5 Contributions

5.1 Contributions

Note: for contributions submitted to RDM#63 please refer to the latest version of RDM\_63\_tdoc\_allocation for contribution status.

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| [RDM-2024-0005](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36633&fromList=Y) | [Use case for metaverse-based real-time smart farming](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36633&fromList=Y) | Sejong University |

This contribution introduces a new use case for metaverse-based real-time smart farming.

There are some discussions including.

* In case of physical sensors are not working,
* synchronization of virtual metaverse space with physical environment.
* Need to more focus on visual aspects of metaverse

Revision was updated following comments during the meeting.

RDM-2024-0005 was NOTED.

RDM-2024-0005R01 was NOTED.

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| [RDM-2024-0006](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36653&fromList=Y) | [Digital Twin Composition](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=36653&fromList=Y) | Exacta  |

This contribution introduced digital twin composition and the examples of it on Tuesday. The contributor insist that the digital twin composition focuses on where is the data to get and data needed from application.

Some discussion on

* semantic grouping and necessity to find the potential solution for CDT(group of resources) exist today.
* necessity of Data type of Command and device status,
* Many different concepts of compositions and CDD requirements,
* Announcing feature including attributes,
* Complexity of array of resources (which of composition & issue of manipulation data) and where to apply and how to implement,
* need to careful not to increate complexity for the usability of standard,
* CDT have 2 DT is valid structure and necessity of add functionality of aggregate the data.

Contributor introduced revised version of digital twin composition on Wednesday based on Tuesday discussion.

Some discussion on

* Standardization plan,
* Necessity of one single resource to deployment,
* Necessity of adding of composition to illustrate like use cases to reader can get the whole concept,
* Simple representation of key information is necessary,
* Need to have SDT representing relationship between resources,
* Need to provide oneM2M view of what is look like.

RDM-2024-0006 was NOTED.

RDM-2024-0006R1 was NOTED.

RDM-2024-0006R3 was NOTED.

**Discussion on TS-0023 Markdown**

Andreas explain the status the version of TS-0023 markdown. This markdown is intent to be used as baseline for Rel-5. It will be updated on the GitLab.

<https://git.onem2m.org/specifications/ts-0023/-/blob/initial-conversion/TS-0023-SDT_based_Information_Model_and_Mapping_for_Vertical_Industries.md?ref_type=heads>

New action is required to determin RDM documents swtich to the new markdown process and their priorities.

**Discussion on Smart Farm implementation with Metaverse**

Two observers from Digisaar(Manuel Gorius and Aaron Wewior) was participated.

JaeSeung introduced smart farm implementation entitled “Smart Farm Infrastructure with Metaverse” which can be found at <https://www.hackster.io/rudgh9242/smart-farm-infrastructure-with-metaverse-373664>

JaeSeung also introduced its revision including text “The oneM2M System, leveraging its comprehensive model, shall be able to replicate the physical world environment, including deployed IoT devices, objects, and surroundings like walls, within the metaverse virtual space.”

6 Planning for next Meetings

6.1 Future TP Meetings

* TP#64, 22nd April ’24 – 26th April ’24

6.2 Next Conference Calls

The following interim virtual RDM meeting was scheduled:

* RDM #63.1, Tuesday 12 April 2024, 13:00 – 15:00 UTC
* RDM #63.2, Thursday 04 April 2024, 13:00 – 15:00 UTC

7 Any other business

None

8 Closure of meeting

The Chair thanked the participants and closed the meeting.