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| MINUTES |
| Meeting title: | RDM 51 e-meeting |
| Chair: | Shane HE, Nokia, shane.he@nokia.com  |
| Vice-Chairs: | TaeHyun Kim, SynchTechno, thyun.kim@synctechno.com Marianne Mohali, Orange, marianne.mohali@orange.com  |
| Secretary: | Akash Malik akash@tsdsi.in; Katie Bagwell cbagwill@atis.org;  |
| Meeting Date: | 2021-09-03 ~ 2020-06-17 |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |

oneM2M Notice

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1 Opening of the meeting

1.1 Welcome

Shane He, RDM Chair, opened the RDM51 meeting on 03rd Sep 2021. Participants were advised to read the oneM2M legal notice on the cover page of the agenda.

1.2 Objectives

1.3 Schedule

1. 2021-09-03 12:00 (GMT)

2. 2021-09-07 12:00 (GMT)

3. 2021-09-14 12:00 (GMT)

4. 2021-09-16 12:00 (GMT)

2 Review & Approval of Agenda

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| --- | --- | --- |
| RDM-2021-0058 | RDM #51 Agenda | RDM Chair |
| RDM-2021-0059 | RDM#51 Tdoc Allocation  | RDM Chair |

The RDM Document Allocation will be updated throughout the technical plenary weeks.

RDM-2021-0059 was NOTED.

RDM-2021-0058 was AGREED.

3 Review & Approval of Previous Minutes

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| RDM-2021-0052  | RDM 50.2 minutes | Secretary (Joey Lee) |

RDM-2021-0052 was AGREED.

4 Review of Open Action & WI Status

4.1 WI Status

WI-0015 - oneM2M Use Case Continuation

WI-0104 - SDT based Information Model and Mapping for Vert. Ind. 15%

WI-0092 - Railway Domain Enablement 90%

WI-0094 - Ontologies for Smart City Services 65%

WI-0098 - IoT for Smart Lifts 40%

WI-0099 - Management Object Migration 100%

WI-0101 - Advanced semantic discovery 25%

WI-0105 – System enhancements to support AI capabilities 20%

4.2 TS Status

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| **TS** | **Title** | **Rel-5** | **Rel-4** | **Rel-3** | **Rapporteur** | **Comment** |
| TS-0002 | Requirements  | new | 4.7.0 | 3.1.2 | Shane He, Nokia | Rel.5 |

4.3 TR Status

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| **TR** | **Title** | **Rel-5** | **Rel-4** | **Rel-3** | **Rapporteur** | **Comment** |
| TR-0001 | Use Cases Collection |  | 4.4.0 | 3.1.1 | Massimo Vanetti (SBS), Shane He(Nokia) | Rel.5 |
| TR-0058 | Railway Domain Enablement |  | 0.7.0 | - | Andrew Min-gyu Han(Hansung Univ.) |  |
| TR-0061 | Study on ontologies for Smart City Services |  | 0.2.0 | - | InSong Lee, KETI  |  |

4.4 Action Items

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| **Number** | **Action** | **Responsible** | **Status** |
| N/A |  |  |  |

5 Contributions

5.1 TR-0068 discussion

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| RDM-2021-0053 | Introduction to AI/ML and IoT | KETI and Hyundai Motors |

This contribution gives the overview of AI/ML. A revision with an updated list of source is expected.

RDM-2021-0053 was NOTED.

RDM-2021-0053R01 was AGREED.

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| [RDM-2021-0054](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33453&fromList=Y) | Data management for AI/ML | KETI and Hyundai Motors |

This contribution describes how AI/ML manages data to build a model and perform prediction.

Comments: It was suggested to use examples conveying relationship with oneM2M clearly.

Revision is expected.

RDM-2021-0054 was NOTED.

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| [RDM-2021-0055](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33704&fromList=Y) | Use case for data augmentation | KETI and Hyundai Motors |

This contribution introduces AI/ML use case for data augmentation.

Comments: A new use cases related to data sharing was suggested. A revision is expected incorporating feedback from members.

RDM-2021-0055 was NOTED.

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| [RDM-2021-0054R01](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33704&fromList=Y) | [Data management for AI/ML](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33968&fromList=Y) | KETI and Hyundai Motors |

This contribution provides input to section 6.2 AI/ML and IoT.

In particular, the contribution describes how AI/ML manages data to build a model and perform prediction.

Revisions were made to adjust fix typos and delete an addressed comment.

RDM-2021-0054R01 was NOTED.

RDM-2021-0054R02 was AGREED.

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| [RDM-2021-0055R01](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33704&fromList=Y) | [Use case for data augmentation](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33970&fromList=Y) | KETI and Hyundai Motors |

This contribution introduces a new use case for data augmentation.

Revision expected.

RDM-2021-0055R01 was NOTED.

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| [RDM-2021-0055R02](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33704&fromList=Y) | [Use case for data augmentation](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34022&fromList=Y) | KETI and Hyundai Motors |

Based on discussions of last meeting, this revision includes clarification for relationship between the two applications and a revised potential requirement.

RDM-2021-0055R02 was AGREED.

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| RDM-2021-0056 | [Use case for AI data management in IoT platform](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33930&fromList=Y) | KETI and Hyundai Motors |

This contribution introduces a new use case for AI data management in last mile mobility and delivery.

Revision expected.

RDM-2021-0056 was NOTED.

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| RDM-2021-0056R01 | [Use case for last mile delivery](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34044&fromList=Y) | KETI and Hyundai Motors |

This revision accommodates the suggestions made by the members.

RDM-2021-0056R01 was AGREED

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| RDM-2021-0057R01 | [Use case for enabling AI model in IoT platform](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34046&fromList=Y) | KETI and Hyundai Motors |

This contribution introduces a new use case for smart virtual shop using metaverse.

Suggestions made by the members will be accommodated in the revision. The revision will be shared on RDM emailer for approval.

RDM-2021-0057R01 was NOTED

5.2 TS-0023 discussion

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| RDM-2021-0060 | [TS-0023 Metadata](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33969&fromList=Y) | Orange (Cyrille-Marianne), DT (Andreas K), Exacta |

This CR proposes defining a new domain called metadata, which contains various meta-informational modules, and make these modules optional children of each flexContainer mapping a SDT device, subdevice, module or action.

This CR is intended for Release 4.

Revisions needed to fix typos.

Revision expected.

RDM-2021-0060 was NOTED.

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| RDM-2021-0060R01 | [TS-0023 Metadata](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33974&fromList=Y) | Orange (Cyrille-Marianne), DT (Andreas K), Exacta |

This revision fixes typographical errors.

It was agreed to prepare a mirror contribution for Release 5.

RDM-2021-0060R01 was AGREED.

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| RDM-2021-0067 | [TS-0023 Metadata](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34027&fromList=Y) | Orange (Cyrille-Marianne), DT (Andreas K), Exacta |

This CR is a mirror contribution for Release 5.

RDM-2021-0067 was AGREED.

5.3 TR-0067 discussion

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| RDM-2021-0064 | [TR-0067\_Analysis and Conclusion](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34023&fromList=Y) | Orange (Cyrille-Marianne) |

This CR introduce an analysis and conclusion to TR-0067.

A revision is required to make some editorial changes and share with SDS and RDM for email discussion.

Revision expected.

RDM-2021-0064 was NOTED.

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| RDM-2021-0065 | [Proposed\_Way\_Forward\_with\_Device\_Management\_and\_WI-0099](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34024&fromList=Y) | Orange (Cyrille-Marianne) |

This contribution presents the current situation and way forward for WI-0099.

Some editorial changes were suggested.

Revision expected.

RDM-2021-0065 was NOTED.

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| RDM-2021-0066 | [Work Item for IPE-based Device Management with FlexContainer](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34025&fromList=Y) | Orange (Cyrille-Marianne) |

This contribution proposes a work item for Device Management (DMG) with IPE-based approach with FlexContainer. Members are invited to refine the title.

4 supporters were added.

Revision expected.

RDM-2021-0066 was NOTED.

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| RDM-2021-0065R02 | [Proposed\_Way\_Forward\_with\_Device\_Management\_and\_WI-0099](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34048&fromList=Y) | Orange (Cyrille-Marianne) |

The R01 was shared in the SDS emailer. This revision accommodates the suggestions received from the email discussion.

It will be presented in the TP 51 closing plenary.

RDM-2021-0065R02 was NOTED.

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| RDM-2021-0066R02 | [Work Item for IPE-based Device Management with FlexContainer](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34049&fromList=Y) | Orange (Cyrille-Marianne) |

The revision R01 was shared with the SDS and RDM. New revision R02 was created which accommodates the inputs received from the email discussion.

A new revision was created to fix the editorial corrections.
It will be presented as a TP contribution in the TP 51 closing plenary for approval of TR 0067 V4.0.0 for Rel 4.

RDM-2021-0066R02 was NOTED.

RDM-2021-0066R03 was AGREED.

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| RDM-2021-0064R01 | [TR-0067\_Analysis and Conclusion](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34028&fromList=Y) | Orange (Cyrille-Marianne) |

This revision presents the editorial update of the TR 0067’s conclusion.

RDM-2021-0064R01 was AGREED.

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| RDM-2021-0068 | [TR-0067 v0.3.0 new Baseline](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34045&fromList=Y) | Orange (Cyrille-Marianne) |

This contribution provides a new baseline for TR-0067. Revision of the contribution includes editorial changes to the TR-0067.

RDM-2021-0068 was NOTED.

RDM-2021-0068R01 was AGREED.

5.7 Other documents

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| [TP-2021-0065](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33811&fromList=Y) | [LS on ITU-T SG20 terms and definitions](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33811&fromList=Y) | Roland Hechwartner, Deutsche Telekom |

This LS is from ITU-T SG20 suggesting oneM2M to use specific definitions in place of using generic terms to avoid confusion. It was decided to investigate the oneM2M documents to identify such terms and a solution.

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| [RDM-2021-0063](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=33695&fromList=Y) | [Proposed solution for LS from ITU-T SG20 terms and definitions](https://member.onem2m.org/Application/documentApp/documentinfo/?documentId=34021&fromList=Y) | Roland Hechwartner, Deutsche Telekom |

This contribution proposes solutions to the ITU-T SG 20 suggestions made in its LS (TP-2021-0065).

RDM-2021-0063 was NOTED.

6 Planning for next Meetings

6.1 Next Conference Calls

 - RDM 51.1: 20 Oct 2021, GMT 12:00-14:00

- RDM 51.2: 16 Nov 2021, GMT 12:00-14:00

6.2 Face to Face Meetings

N/A

7 Any other business

7.1 TP Closing Report

Chair’s report draft has been reviewed. This will be presented by RDM chair at the TP Closing Plenary.

8 Closure of meeting

The Chair thanked the participants and closed the meeting 16 Sep 13:30 GMT.