Reference Release Definition for M2Minterface
Approved Version 1.0 – 24 Mar 2015

Open Mobile Alliance
OMA-RRELD-M2Minterface-V1_0-20150324-A
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1. Scope

The scope of this document is limited to the Enabler Release Definition of M2M interface according to OMA Release process and the Enabler Release specification baseline listed in section 5.
2. References

2.1 Normative References


[oneM2MRequirements] Reference oneM2M-TS-0002-Requirements-V0_6_2, URL:http://www.onem2m.org


2.2 Informative References


[oneM2M UseCases] Reference oneM2M-TR-0001-UseCase-V0_0_5, URL:http://member.onem2m.org/Application/documentapp/downloadLatestRevision/?docId=673
3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope”, “Release Version Overview” and “Conformance Requirements Notation Details”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

<table>
<thead>
<tr>
<th>Minimum Functionality Description</th>
<th>Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Release</td>
<td>A set of specifications and/or white papers which form a formal deliverable of OMA. The release can be referenced or otherwise used to support implementable enabler releases, but it cannot by itself be implemented in products.</td>
</tr>
</tbody>
</table>

3.3 Abbreviations

- **LWM2M**: Lightweight Machine to Machine (refers to this OMA enabler)
- **OMA**: Open Mobile Alliance
- **OMNA**: Open Mobile Naming Authority
- **RRELD**: Reference Release Definition

Kindly consult [OMADICT] for more abbreviations used in this document.
4. Release Version Overview

M2M Service layer is establishing practices which utilize device management functionality provided by the DM layer. In order to effectively use the device management functionality of the DM layer, an interface between the M2M Service layer and DM layer needs to be specified. M2M interface enabler provides needed requirements to engulf the overall needs across the boundary between Device Management layer and M2M Service Layer.

4.1 Version 1.0 Functionality

Version 1.0 of M2M interface RD provides the requirements basic functionalities interconnecting M2M service layer to Device Management Layer and covers the following:

- Security
- Session Establishment
- Session Operations
- Events
- Resource Discovery
5. Document Listing for M2M Interface 1.0

This section is normative.

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
</table>

Table 1: Listing of Documents in M2M interface Enabler
6. OMNA Considerations

None
7. API Considerations

Not Applicable for V1.0 release of M2M interface enabler.
Appendix A.  Change History

A.1  Approved Version History

<table>
<thead>
<tr>
<th>Reference</th>
<th>Date</th>
<th>Description</th>
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</table>
| OMA-RRELD-M2Minterface-V1_0-20150324-A | 24 Mar 2015 | Status changed to Approved by TP  
TP Ref # OMA-TP-2015-0072-  
INP_Management_Interface_for_M2M_V1_0_RRP_for_final_Approval |
### Appendix B.  oneM2M use cases

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>oneM2M Use Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Wide area Energy related measurement/control system for advanced transmission and distribution automation</td>
</tr>
<tr>
<td>Enterprise</td>
<td>Smart building</td>
</tr>
<tr>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>Healthcare</td>
<td>M2M Healthcare Gateway</td>
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<tr>
<td>Industrial</td>
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</tr>
<tr>
<td>Public Services</td>
<td>Street Light Automation</td>
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<tr>
<td>Residential</td>
<td>Home Energy Management</td>
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<tr>
<td>Retail</td>
<td></td>
</tr>
<tr>
<td>Transportation</td>
<td>Vehicle Diagnostic &amp; Maintenance Report</td>
</tr>
<tr>
<td>Other</td>
<td>Extending the M2M Access Network using Satellites</td>
</tr>
</tbody>
</table>