Reference Release Definition for DiagVoLTE
Candidate Version 1.0 – 25 Nov 2014

Open Mobile Alliance
OMA-RRELD-DiagVoLTE-V1_0-20141125-C
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1. Scope

The scope of this document is limited to the Reference Release Definition of DiagVoLTE according to OMA Release process and the Reference Release document baseline listed in section 5.
2. References

2.1 Normative References


[DiagVoLTE_SU] “DiagMon VoLTE Function MO”, Version 1.0, Open Mobile Alliance, OMA-SUP-MO_DiagMon_VOoLTE_Function-V1_0-20140822, URL:http://www.openmobilealliance.org/


2.2 Informative References


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” and "Release Version Overview" are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

<table>
<thead>
<tr>
<th>Reference Release</th>
<th>Definition</th>
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</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>
<tr>
<td>Definition</td>
<td>A definition of the documents that are included in a Reference Release.</td>
</tr>
</tbody>
</table>

3.3 Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA</td>
<td>Open Mobile Alliance</td>
</tr>
<tr>
<td>OMNA</td>
<td>Open Mobile Naming Authority</td>
</tr>
<tr>
<td>RRELD</td>
<td>Reference Release Definition</td>
</tr>
<tr>
<td>VoLTE</td>
<td>Voice Over Long Term Evolution</td>
</tr>
</tbody>
</table>
4. Release Version Overview

The DiagMon VoLTE Function enabler defines an additional instantiation of the DiagMon Management Object Framework specifically for obtaining diagnostic and performance information related to Voice over LTE (VoLTE). The DiagMon version 1.2 enabler provides an interface between a Management Authority and Devices, based on OMA DM, which allows collection and retrieval of device diagnostic information and performance metrics. The DiagMon Function specification, which is part of DiagMon V1.2, defines a number of standardised instantiations of the DiagMon Management Object Framework for the purposes of obtaining specific diagnostic and performance information. DiagVoLTE extends this capability to include VoLTE diagnostics.

4.1 Version 1.0 Functionality

Version 1.0 of the DiagMon VoLTE Function enabler will allow a mobile network operator to configure compliant devices to capture, record, and report performance metrics associated with Voice Over LTE calls. In conjunction with the DiagMon v1.2 enabler this information may be captured in response to various triggers, such as device location, time of day, or in response to abnormal behaviour such as call drops. The information can include VoLTE SIP call session statistics and call status, as well as SIP registration state changes. This information can be used by a network operator to assess VoLTE performance and diagnose network and device problems related to VoLTE.
5. Document Listing for DiagVoLTE V1.0

This section is normative.

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[DiagVoLTE_TS]</td>
<td>OMA-TS-DiagMon_VoLTE_Function-V1_0-20141125-C</td>
<td>Technical specification for the DiagVoLTE function</td>
</tr>
<tr>
<td>[DiagVoLTE_SUP]</td>
<td>OMA-SUP-MO_DiagMon_VoLTE_Function-V1_0-20141125-C</td>
<td>Support File containing the DiagVoLTE MO XML description</td>
</tr>
</tbody>
</table>

Table 1: Listing of Documents in DiagVoLTE Reference Release
## 6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into its registry:

<table>
<thead>
<tr>
<th>MO Identifier</th>
<th>Description</th>
<th>Owner</th>
<th>Version</th>
<th>MO DDF</th>
<th>MO Spec</th>
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<tbody>
<tr>
<td>urn:oma:mo:oma-diag:volte_metrics:1.0</td>
<td>DDF Document for DiagMon DiagVoLTE</td>
<td>OMA</td>
<td>V1.0</td>
<td>mo_diagmon_function_diagvolt_e-v1_0.ddf</td>
<td>OMA-TS-DiagMon_VoLTE_Function-V1_0</td>
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7. API Considerations

Not applicable
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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<tbody>
<tr>
<td>n/a</td>
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</tr>
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</table>

A.2 Draft/Candidate Version 1.0 History

<table>
<thead>
<tr>
<th>Document Identifier</th>
<th>Date</th>
<th>Sections</th>
<th>Description</th>
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<tbody>
<tr>
<td>Draft Versions</td>
<td>26 Aug 2014</td>
<td>All</td>
<td>Initial draft</td>
</tr>
<tr>
<td>OMA-RRELD-DiagVoLTE-V1_0</td>
<td>09 Sep 2014</td>
<td>5</td>
<td>Update document list prior to Consistency Review</td>
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<td></td>
<td>14 Nov 2014</td>
<td>5</td>
<td>Editorial update of permanent document references in section 5</td>
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<tr>
<td>Candidate Version</td>
<td>25 Nov 2014</td>
<td>All</td>
<td>Status changed to Candidate by TP</td>
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<td></td>
<td>TP Ref # OMA-TP-2014-0267-TP_DiagVoLTE_V1_0_RRP_for_Candidate_Approval</td>
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