Enabler Release Definition for Always Online Infrastructure Enabler (AOI)

Approved Version 1.0 – 04 Apr 2017

Open Mobile Alliance
OMA-ERELD-AOI-V1_0-20170404-A
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1. Scope

The scope of this document is limited to the Enabler Release Definition of Always Online Infrastructure (AOI) 1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.
2. References

2.1 Normative References

[AOI-ER] “Always Online Infrastructure Enabler”, Open Mobile Alliance™, OMA-ER-AOI-V1_0, 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”, “Release Version Overview” and “Conformance Requirements Notation Details”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

**Enabler Release**
Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfill a number of related market requirements.

3.3 Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOI</td>
<td>Always Online Infrastructure</td>
</tr>
<tr>
<td>ER</td>
<td>Enabler Release</td>
</tr>
<tr>
<td>ERDEF</td>
<td>Enabler Requirement Definition</td>
</tr>
<tr>
<td>ERELD</td>
<td>Enabler Release Definition</td>
</tr>
<tr>
<td>OMA</td>
<td>Open Mobile Alliance</td>
</tr>
<tr>
<td>OMNA</td>
<td>Open Mobile Naming Authority</td>
</tr>
<tr>
<td>SCR</td>
<td>Static Conformance Requirements</td>
</tr>
<tr>
<td>URN</td>
<td>Uniform Resource Name</td>
</tr>
</tbody>
</table>
4. Release Version Overview

This Enabler Release (ER) document is a combined document of requirements, architecture and technical specification for Always Online Infrastructure (AOI) Enabler.

The Always Online Infrastructure (AOI) enabler provides functions of application/service management, connection management, interfaces between AOI Client and AOI Server, interfaces to client applications and server applications and bandwidth optimization.

4.1 Version 1.0 Functionality

The version 1.0 of the AOI Enabler defines an overall framework that enables notification based services, and function components, procedures and interfaces.

The core functions provided by the AOI Enabler include:

- Notification Channel
- Wake Up mechanisms
- Identification and Addressing
- Definition of interfaces
5. Document Listing for AOI 1.0

This section is normative.

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[AOI-ER]</td>
<td>OMA-ER-AOI-V1_0-20170404-A</td>
<td>Requirements, architecture and technical specification of the AOI enabler.</td>
</tr>
</tbody>
</table>

Table 1: Listing of Documents in AOI 1.0 Enabler
6. OMNA Considerations
7. Conformance Requirements Notation Details

This section is informative.

The tables in following chapters use the following notation:

- **Item:** Entry in this column MUST be a valid ScrItem according to [SCRRULES].
- **Feature/Application:** Entry in this column SHOULD be a short descriptive label to the Item in question.
- **Requirement:** Expression in the column MUST be a valid TerminalExpression according to [SCRRULES] and it MUST accurately reflect the architectural requirement of the Item in question.
8. ERDEF for AOI 1.0 – Client Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-AOI-C-001-M</td>
<td>AOI Client</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: ERDEF for AOI 1.0 Client-side Requirements
9. ERDEF for AOI 1.0 – Server Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-AOI-S-001-M</td>
<td>AOI Server</td>
<td></td>
</tr>
</tbody>
</table>

Table 3: ERDEF for AOI 1.0 Server-side Requirements
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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| OMA-ERELD-AOI-V1_0-20170404-A | 04 Apr 2017 | Status changed to Approved by TP  
|                        |         | TP Ref # OMA-TP-2017-0023-INP_AOI-V1_0_ERP_for_Final_Approval               |