



Enabler Release Definition for OMA Presence SIMPLE

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Open Mobile Alliance

OMA-ERELED-Presence_SIMPLE-V1_1-20080627-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of the Presence SIMPLE V1.1 enabler according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_5, <http://www.openmobilealliance.org/>
- [XSD_pidfOMA] “PRS – PIDF OMA Extensions version – 1.0”, Open Mobile Alliance™, OMA-SUP-XSD_prs_pidf_omapres-V1_0, <http://www.openmobilealliance.org/>
- [PRS_AC] “OMA Application Characteristics for SIMPLE Presence”, Version 1.0, Open Mobile Alliance™, OMA-SUP-AC_ap0002_presence-V1_0, <http://www.openmobilealliance.org/>.
- [PRS_DDS] “Presence SIMPLE Data Specification”, Version 1.0, Open Mobile Alliance™, OMA-DDS-Presence_SIMPLE-V1_0, <http://www.openmobilealliance.org/>.
- [PRS_MO] “OMA Management Object for SIMPLE Presence”, Version 1.1, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE_MO-V1_1, <http://www.openmobilealliance.org/>.
- [XSD_presRules] “Presence SIMPLE – Presrules”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_prs_presrules-V1_0, URL: <http://www.openmobilealliance.org/>
- [PRS_Spec] “Presence SIMPLE Specification”, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE-V1_1, Version 1.1, <http://www.openmobilealliance.org/>
- [PRS_XDM] “Presence SIMPLE XDM Specification”, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE_XDM-V1_1, Version 1.1, <http://www.openmobilealliance.org/>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, <http://www.ietf.org/rfc/rfc2119.txt>
- [PRS_RLSXDM] “Resource List Server (RLS) XDM Specification”, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE_RLS_XDM-V1_1, Version 1.1, <http://www.openmobilealliance.org/>
- [XDMER] “Enabler Release Definition for XML Document Management”, Open Mobile Alliance™, OMA-ERELD_XDM-V1_1, Version 1.1, <http://www.openmobilealliance.org/>

2.2 Informative References

- [PRS_AD] “Presence SIMPLE Architecture Document”, Open Mobile Alliance™, OMA-AD-Presence_SIMPLE-V1_1, Version 1.1, <http://www.openmobilealliance.org/>
- [PRS_RD] “Presence SIMPLE Requirements Document”, Open Mobile Alliance™, OMA-RD-Presence_SIMPLE-V1_1, Version 1.1, <http://www.openmobilealliance.org/>

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.

| | |
|--|---|
| 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 fulfil a number of related market requirements. |
| Minimum Functionality Description | Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release. |
| Presentity | A logical entity that has presence information associated with it. |

3.2 Abbreviations

| | |
|---------------|--|
| ERDEF | Enabler Requirement Definition |
| ERELD | Enabler Release Definition |
| OMA | Open Mobile Alliance |
| SIMPLE | SIP for Instant Messaging and Presence Leveraging Extensions |
| SIP | Session Initiation Protocol |
| XDM | XML Document Management |
| XDMS | XML Document Management Server |

4. Release Version Overview

4.1 Version 1.0 Functionality

The Presence SIMPLE enabler is a service that manages the collection and controlled dissemination of presence information.

The Presence Specification [PRS_Spec] defines a presence service framework consisting of the following functional entities:

- a Presence Source, which publishes presence information to be available to interested parties (Watchers);
- a Watcher, which subscribes to receive published presence information made available by Presence Sources;
- a Watcher Information Subscriber, which subscribes to receive information about Watchers;
- a Presence Server, which receives presence information from Presence Sources, makes presence information available to Watchers and watcher information available to Watcher Information Subscribers; and
- a Resource List Server, that provides Watchers with an efficient method of subscribing for presence information of multiple Presentities.

A Presentity may utilize the Presence XDMS [PRS_XDM] to define a presence authorization policy that affects the Watcher's view of the Presentity's presence information. The Presence Server receives the policy from the Presence XDMS and enforces it upon subscriptions received from Watchers.

A Watcher may utilize the RLS XDMS [PRS_RLSXDM] to define lists of Presentities, which provide the Watcher with an efficient method to subscribe for presence information.

4.2 Version 1.1 Functionality

This version of the Presence SIMPLE enabler references the XDM V1.1 enabler [XDMER], due to the OMA recommendation that implementations not use the XDM V1.0 enabler. This means that there is no SIP subscription/notification mechanism by which Principals (e.g. Presence Server, Resource List Server, Presentities, etc.) can be notified of changes to XML documents stored in the Presence XDMS, RLS XDMS, or Shared XDMS.

NOTE: The Presence SIMPLE V1.1 Enabler Release is intended to obsolete V1.0. It is therefore recommended that implementations not use the Presence SIMPLE V1.0 Enabler Release.

5. Document Listing for Presence SIMPLE

This section is normative.

| Doc Ref | Permanent Document Reference | Description |
|---------------------------------|--|--|
| Requirement Document | | |
| [PRS_RD] | OMA-RD-Presence_SIMPLE-V1_1-20080627-A | Requirement Document for Presence SIMPLE Enabler |
| Architecture Document | | |
| [PRS_AD] | OMA-AD-Presence_SIMPLE-V1_1-20080627-A | Architecture Document for Presence SIMPLE Enabler |
| Technical Specifications | | |
| [PRS_Spec] | OMA-TS-Presence_SIMPLE-V1_1-20080627-A | Defines an application level specification for the OMA SIP/SIMPLE-based Presence Service. |
| [PRS_DDS] | OMA-DDS-Presence_SIMPLE-V1_0-20080627-A | Describes the presence data model used by the Presence SIMPLE enabler, and provides presence information element definitions. |
| [PRS_XDM] | OMA-TS-Presence_SIMPLE_XDM-V1_1-20080627-A | This specification describes the structure of a particular type of XML document used for watcher authorisation in the Presence service |
| [PRS_RLSXDM] | OMA-TS-Presence_SIMPLE_RLS_XDM-V1_1-20080627-A | The RLS XDMS is the repository for XML documents that define services which are associated with a list of resources. |
| [PRS_MO] | OMA-TS-Presence_SIMPLE_MO-V1_1-20080627-A | This document defines the OMA Presence SIMPLE Management Object (MO). |
| Supporting Files | | |
| [XSD_pidfOMA] | OMA-SUP-XSD_prs_pidf_omapres-V1_0_2-20080627-A | Schema with attributes for PIDF extensions. Working file in schema directory: file: prs_pidf_omapres-v1_0.xsd path: http://www.openmobilealliance.org/tech/profiles/ |
| [XSD_presRules] | OMA-SUP-XSD_prs_presrules-V1_0_1-20080128-C | Schema with attributes for Application Usage. Working file in schema directory: file: prs_presrules-v1_0.xsd path: http://www.openmobilealliance.org/tech/profiles/ |
| [PRS_AC] | OMA-SUP-AC_ap0002_presence-V1_0_2-20080627-A | Application characteristics. Working file in AC directory: file: ac_ap0002_presence-v1_0.txt path: http://www.openmobilealliance.org/tech/omna/dm-ac/ |

Table 1: Listing of Documents in Presence SIMPLE Enabler

6. 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 <code>ScrItem</code> according to [IOPPROC]. |
| Feature/Application: | Entry in this column SHOULD be a short descriptive label to the Item in question. |
| Status: | Entry in this column MUST accurately reflect the architectural status of the Item in question. <ul style="list-style-type: none">• M means the Item is mandatory for the class• O means the Item is optional for the class• NA means the Item is not applicable for the class |
| Requirement: | Expression in the column MUST be a valid <code>TerminalExpression</code> according to [IOPPROC] and it MUST accurately reflect the architectural requirement of the Item in question. |

7. ERDEF for Presence – Client Requirements

This section is normative.

The Presence SIMPLE consists of two clients: a Presence Source, and a Presence Watcher. The requirements for each are listed in the following sections.

7.1 Presence Source Requirements

| Item | Feature/Application | Status | Requirement |
|-----------------|------------------------------|--------|---------------------|
| ERDEF-SRC-C-001 | Publish Presence Information | M | PSSPEC-SRC:MCF |
| ERDEF-SRC-C-002 | Define Presence Policies | O | PXDMSPEC-XDM-UA:MCF |

Table 2 ERDEF for Presence Source Requirements

7.2 Presence Watcher Requirements

| Item | Feature/Application | Status | Requirement |
|----------------|---|--------|-------------------------|
| ERDEF-PW-C-001 | Subscribe for, and receive notifications of, Presence Information | M | PSSPEC-SIMPLE-WATCH:MCF |

Table 3 ERDEF for Presence Watcher Requirements

8. ERDEF for Presence – Server Requirements

This section is normative.

The Presence SIMPLE Enabler consists of two servers: a Presence Server and a Resource List Server. The following sections define the requirements for each of these two servers.

8.1 Presence Server (PS) Requirements

| Item | Feature/Application | Status | Requirement |
|--------------|--|--------|---------------|
| ERDEF-PS-001 | Receive and Publish Presence Information | M | PSSPEC-PS:MSF |
| ERDEF-PS-002 | Retrieve and Assert Presence Policies | M | PSSPEC-PS:MSF |

Table 4 ERDEF for PS Requirements

8.2 Resource List Server (RLS) Requirements

| Item | Feature/Application | Status | Requirement |
|---------------|---|--------|------------------------------------|
| ERDEF-RLS-001 | Resource List Subscriptions and Notifications | M | PSSPEC-RLS:MSF AND RXDMSPEC-AU:MSF |

Table 5 ERDEF for RLS Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version History

| Reference | Date | Description |
|---|-------------|---|
| OMA-ERELD-Presence_SIMPLE-V1_0-20060725-A | 25 Jul 2006 | TP approved: OMA-TP-2006-0223R04-INP_Presence_SIMPLE_V1_0_for_final_approval |
| OMA-ERELD-Presence_SIMPLE-V1_0_1-20061128-A | 28 Nov 2006 | Date strings updated in section 6. Class 2 and 3 CRs agreed against: OMA-AD-Presence_SIMPLE-V1_0_1 OMA-ERELD-Presence_SIMPLE-V1_0_1 OMA-TS-Presence_SIMPLE-V1_0_1 OMA-TS-Presence_SIMPLE_XDM-V1_0_1 OMA-TS-Presence_SIMPLE_RLS_XDM-V1_0_1 OMA-TS-Presence_SIMPLE_MO_V1_0_1 OMA-SUP-AC_ap0002_presence-V1_0_1 OMA-SUP-XSD_prs_pidf_omapres-V1_0_1 |
| OMA-ERELD-Presence_SIMPLE-V1_0_1-20080627-A | 27 Jun 2008 | Status changed to Approved by TP TP ref# OMA-TP-2008-0250- INP_Presence_SIMPLE_V1_1_ERP_for_Final_Approval |