



Enabler Release Definition for General Service Subscription Management

Candidate Version 1.0 – 26 May 2009

Open Mobile Alliance
OMA-ERELED-GSSM-V1_0-20090526-C

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2009 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. under the terms set forth above.

Contents

- 1. SCOPE4
- 2. REFERENCES5
 - 2.1 NORMATIVE REFERENCES.....5
 - 2.2 INFORMATIVE REFERENCES.....5
- 3. TERMINOLOGY AND CONVENTIONS6
 - 3.1 CONVENTIONS.....6
 - 3.2 DEFINITIONS.....6
 - 3.3 ABBREVIATIONS.....6
- 4. RELEASE VERSION OVERVIEW7
 - 4.1 VERSION 1.0 FUNCTIONALITY7
- 5. DOCUMENT LISTING FOR GSSM9
- 6. CONFORMANCE REQUIREMENTS NOTATION DETAILS10
- 7. ERDEF FOR GSSM11
- APPENDIX A. CHANGE HISTORY (INFORMATIVE).....12
 - A.1 APPROVED VERSION HISTORY12
 - A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY12

Figures

- Figure 1: Reference Model of OMA GSSM.....7

Tables

- Table 1: Listing of Documents in GSSM Enabler.....9
- Table 2: ERDEF for GSSM11

1. Scope

The scope of this document is limited to the Enabler Release Definition of GSSM (General Service Subscription Management) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [GSSM-AD] “General Service Subscription Management Architecture”, Open Mobile Alliance™, OMA-AD-GSSM-V1_0, URL:<http://www.openmobilealliance.org/>
- [GSSM-RD] “General Service Subscription Management Requirements”, Open Mobile Alliance™, OMA-RD-GSSM-V1_0, URL:<http://www.openmobilealliance.org/>
- [GSSM-TS] “General Service Subscription Management Technical Specification”, Open Mobile Alliance™, OMA-TS-GSSM-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM-ERP] “Enabler Release Package for PEEM”, Open Mobile Alliance™, OMA-ERP-PEEM-V1_0, URL:<http://www.openmobilealliance.org/>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL:<http://www.ietf.org/rfc/rfc2119.txt>
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:<http://www.openmobilealliance.org/>

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_7, URL:<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.

The formal notation convention used in sections 7 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCR RULES].

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 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.

3.3 Abbreviations

ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
GSSM	General Service Subscription Management
GSSM-1	Subscription Management interface
GSSM-2	Subscription Profile Data Access interface
OMA	Open Mobile Alliance
PEEM	Policy Evaluation, Enforcement and Management
PEM-1	PEEM Callable interface
PEM-2	PEEM Management interface

4. Release Version Overview

The General Service Subscription Management (GSSM) enabler provides subscription management, subscription profile access and subscription validation, which can be used by other resources (e.g. OMA service enablers). The role of the GSSM enabler is to specify how authorized principals are managing the service subscription (e.g. subscribing to a service, unsubscribing from a service, change of subscription (parameters), subscription suspension/resume/renewal) and accessing subscription profile, and to specify how subscription validation requests are defined and processed.

4.1 Version 1.0 Functionality

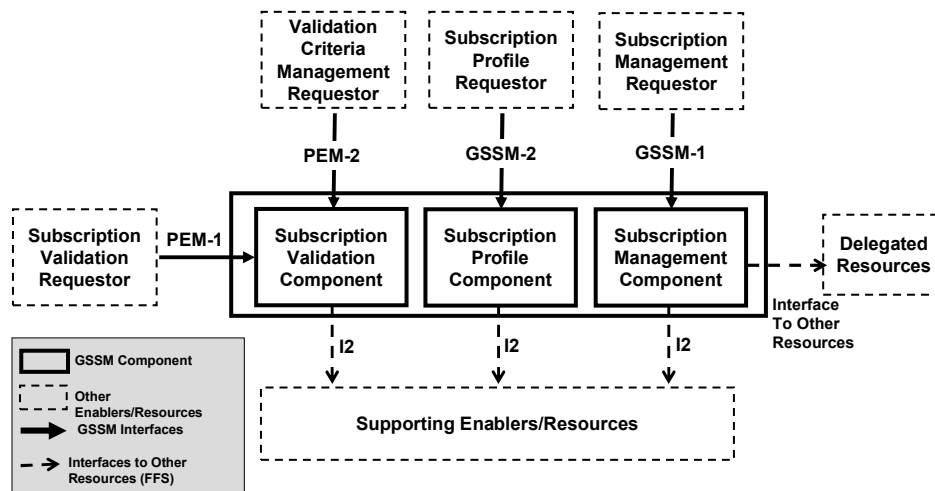


Figure 1: Reference Model of OMA GSSM

Figure 1: Reference Model of OMA GSSM above shows a functional reference model of the OMA GSSM enabler with the different interfaces available.

The GSSM enabler re-uses the OMA PEEM enabler [PEEM-ERP].

The GSSM enabler consists of three independent functional components:

- **Subscription Validation Component:** Provides subscription validation function (to check if the service subscription is valid) to the Subscription Validation Requestor via PEM-1; Provides validation criteria management function to the Validation Criteria Management Requestor via PEM-2;
- **Subscription Profile Component:** Provides aggregated data access functions (i.e. only read) for subscription profile data via GSSM-2 to Subscription Profile Requestor; an example of Subscription Profile Requestor is the Subscription Validation Component;
- **Subscription Management Component:** Delegates subscription management operations (e.g. subscribing to a service, unsubscribing from a service, change an existing subscription) received via GSSM-1 resources; Also delegates notification and confirmation.

The following interfaces are defined for the GSSM enabler:

- GSSM-1 (Subscription Management Interface): Interface that provides subscription management functions (e.g. subscribing to a service, un-subscribing a service, changing an existing subscription, etc.) to the Subscription Management Requestor;
- GSSM-2: Interface for subscription profile data access (i.e. read).
- PEM-1 (subscription validation interface): Interface that provides the subscription validation function for the Subscription Validation Requestor;
- PEM-2(Subscription Validation Criteria Management interface): Interface that provides the validation criteria management for the Validation Criteria Management Requestor;

5. Document Listing for GSSM

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[GSSM_RD]	OMA-RD-GSSM-V1_0-20090526-C	Requirement Document for GSSM Enabler
Architecture Document		
[GSSM_AD]	OMA-AD-GSSM-V1_0-20090512-D	Architecture Document for GSSM Enabler
Technical Specifications		
[GSSM_TS]	OMA-TS-GSSM-V1_0-20090410-D	Technical Specification for GSSM Enabler
Supporting Files		

Table 1: Listing of Documents in GSSM 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 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.

7. ERDEF for GSSM

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-GSSM-001-<<M/O>>	GSSM feature XYZ	

Table 2: ERDEF for GSSM

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELED-GSSM-V1_0	16 Oct 2008	All	Initial baseline draft
	21 Apr 2009	All	Editorial fixes: 2009 template History Box Listing of Documents updated with latest PDs
Candidate Version: OMA-ERELED-GSSM-V1_0	26 May 2009	All	Status changed to Candidate by TP OMA-TP-2009-0201- INP_GSSM_V1_0_RD_for_Candidate_re_Approval