



# **Enabler Release Definition for General Service Subscription Management**

**Candidate Version 1.0 – 22 Oct 2009**

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**Open Mobile Alliance**  
OMA-ERELED-GSSM-V1\_0-20091022-C

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# 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 8 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

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

## 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

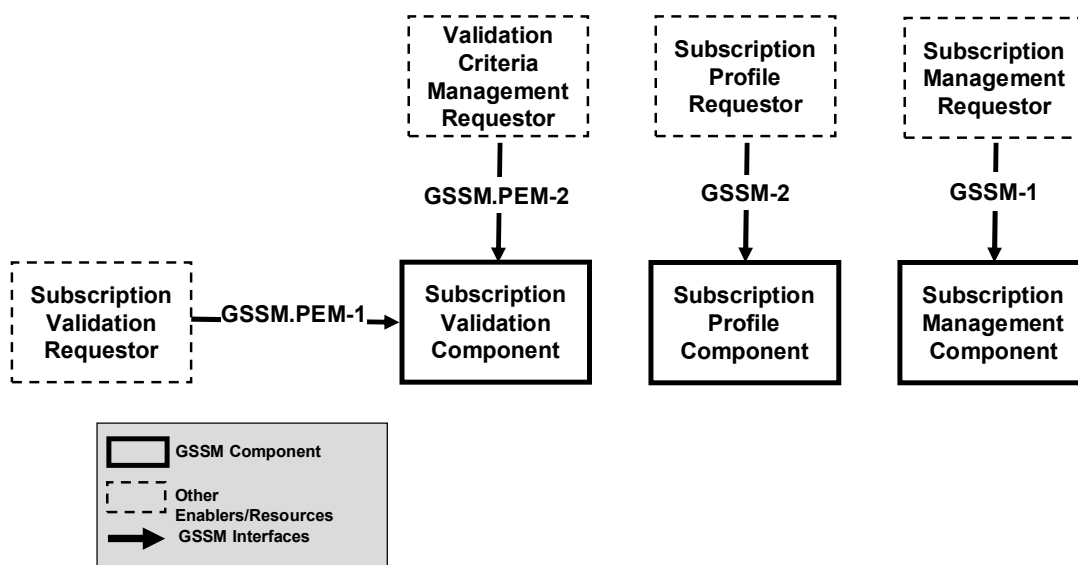


Figure 1: Reference Model of OMA GSSM

**Error! Reference source not found.** 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 GSSM.PEM-1; Provides validation criteria management function to the Validation Criteria Management Requestor via GSSM.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.PEM-1 (Subscription Validation Interface): Interface that provides the subscription validation function for the Subscription Validation Requestor;
- GSSM.PEM-2(Subscription Validation Criteria Management Interface): Interface that provides the Validation Criteria management for the Validation Criteria Management Requestor;
- GSSM-2: Interface for Subscription Profile data access (i.e. read).



## 5. Document Listing for GSSM

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[GSSM_RD]	OMA-RD-GSSM-V1_0-20091022-C	Requirement Document for GSSM Enabler
<b>Architecture Document</b>		
[GSSM_AD]	OMA-AD-GSSM-V1_0-20091022-C	Architecture Document for GSSM Enabler
<b>Technical Specifications</b>		
[GSSM_TS]	OMA-TS-GSSM-V1_0-20091022-C	Interface Specification Document for GSSM Enabler
<b>Supporting Files</b>		
[GSSM_SUP_GSSM1]	OMA-SUP-XSD_gssm_gssm1-V1_0-20091022-C.xsd	XML schema for General Service Subscription Management - GSSM-1 Data Schemas  Working file in Schema directory: file: gssm_gssm1-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[GSSM_SUP_GSSM2]	OMA-SUP-XSD_gssm_gssm2-V1_0-20091022-C.xsd	XML schema for General Service Subscription Management - GSSM-2 Data Schemas  Working file in Schema directory: file: gssm_gssm2-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[GSSM_SUP_InpTempl]	OMA-SUP-XSD_gssm_pem1InputTemplate-V1_0-20091022-C.xsd	XML schema for General Service Subscription Management - GSSM.PEM-1 Input Template  Working file in Schema directory: file: gssm_pem1InputTemplate-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[GSSM_SUP_OutpTempl]	OMA-SUP-XSD_gssm_pem1OutputTemplate-V1_0-20091022-C.xsd	XML schema for General Service Subscription Management - GSSM.PEM-1 Output Template  Working file in Schema directory: file: gssm_pem1OutputTemplate-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[GSSM_SUP_Queries]	OMA-SUP-XSD_gssm_queries-V1_0-20091022-C.xsd	XML schema for General Service Subscription Management - Query Data Schemas  Working file in Schema directory: file: gssm_queries-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>

**Table 1: Listing of Documents in GSSM Enabler**

## 6. OMNA Considerations

The GSSM enabler introduces the following namespaces in the “gssm” domain:

Description	Registered URN	Schema Links
GSSM - Query Data Schemas	urn:oma:xml:gssm:queries:1.0	<a href="http://www.openmobilealliance.org/tech/profiles/gssm_queries-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/gssm_queries-v1_0.xsd</a>
GSSM-1 Data Schemas	urn:oma:xml:gssm:gssm1:1.0	<a href="http://www.openmobilealliance.org/tech/profiles/gssm_gssm1-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/gssm_gssm1-v1_0.xsd</a>
GSSM-2 Data Schemas	urn:oma:xml:gssm:gssm2:1.0	<a href="http://www.openmobilealliance.org/tech/profiles/gssm_gssm2-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/gssm_gssm2-v1_0.xsd</a>
GSSM.PEM-1 Input Template Schema	urn:oma:xml:gssm:pem1-input-template:1.0	<a href="http://www.openmobilealliance.org/tech/profiles/gssm_pem1InputTemplate-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/gssm_pem1InputTemplate-v1_0.xsd</a>
GSSM.PEM-1 Output Template Schema	urn:oma:xml:gssm:pem1-output-template:1.0	<a href="http://www.openmobilealliance.org/tech/profiles/gssm_pem1OutputTemplate-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/gssm_pem1OutputTemplate-v1_0.xsd</a>

**Table 2: OMNA Namespaces in the “gssm” SchemaDomain**

## 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 GSSM

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-GSSM-001-M	Subscription Validation	[GSSM-TS]
OMA-ERDEF-GSSM-002-M	Subscription Validation Criteria Mangement	[GSSM-TS]
OMA-ERDEF-GSSM-003-M	Subscription Management	[GSSM-TS]
OMA-ERDEF-GSSM-004-M	Subscription Profile Data Access	[GSSM-TS]

**Table 3: ERDEF for GSSM**

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –

### 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
	12 May 2009	All	Editorial changes to prepare for AD Candidate approval Document Listing History Box
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
Draft Versions OMA-ERELED-GSSM-V1_0	08 Jun 2009	3.3 4.1 5	Implemented agreed change: OMA-ARC-GSSM-2009-0014-CR_ERELED_Consistence Updated document listing
	15 Jun 2009	4.1	Implemented agreed change: OMA-ARC-GSSM-2009-0024-CR_CR_AD_diagram_bugfix_to_ERELED
Candidate Version: OMA-ERELED-GSSM-V1_0	25 Jun 2009	All	Status changed to Candidate by TP OMA-TP-2009-0221R01-INP_GSSM_AD_for_Candidate_approval.
Draft Versions: OMA-ERELED-GSSM-V1_0	22 Jul 2009	All	Implemented agreed change: OMA-ARC-GSSM-2009-0020-CR_Adding_SUP_Docs_to_ERELED OMA-ARC-GSSM-2009-0032-CR_GSSM1_GSSM2_ERELED
	03 Aug 2009	5	Updated document listing
	20 Aug 2009	3, 6, 8	Incorporate CONRR comments
	07 Oct 2009	5	Document Listing updated
Candidate Version: OMA-ERELED-GSSM-V1_0	22 Oct 2009	All	Status changed to Candidate by TP: OMA-TP-2009-0488-INP_GSSM_V1_0_ERP_for_Candidate_Approval