



# Enabler Release Definition for GPM

## Candidate Version 1.0 – 04 Nov 2011

---

**Open Mobile Alliance**  
OMA-ERELED-GPM-V1\_0-20111104-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.**

© 2011 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. SCOPE .....	4
2. REFERENCES .....	5
2.1 NORMATIVE REFERENCES .....	5
2.2 INFORMATIVE REFERENCES .....	5
3. TERMINOLOGY AND CONVENTIONS .....	6
3.1 CONVENTIONS .....	6
3.2 DEFINITIONS.....	6
3.3 ABBREVIATIONS .....	6
4. RELEASE VERSION OVERVIEW .....	7
4.1 VERSION 1.0 FUNCTIONALITY .....	7
5. DOCUMENT LISTING FOR GPM .....	8
6. CONFORMANCE REQUIREMENTS NOTATION DETAILS .....	9
7. ERDEF FOR GPM .....	10
APPENDIX A. CHANGE HISTORY (INFORMATIVE).....	11
A.1 APPROVED VERSION HISTORY .....	11
A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY .....	11

## Figures

Figure 1 Reference Model of OMA GPM.....	7
--	---

## Tables

Table 1: Listing of Documents in GPM Enabler .....	8
Table 2: ERDEF for GPM .....	10

# 1. Scope

The scope of this document is limited to the Enabler Release Definition of GPM according to OMA Release process and the Enabler Release specification baseline listed in section 5.

## 2. References

### 2.1 Normative References

- [GPM\_AD] “Global Permissions Management Architecture”, Open Mobile Alliance, OMA-AD-GPM-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [GPM\_RD] “Global Permissions Management Requirements”, Open Mobile Alliance, OMA-RD-GPM-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [GPM\_TS] “Global Permissions Management Technical Specification”, Open Mobile Alliance, OMA-TS-GPM-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [GPM\_XSD\_Input\_Template] “XSD definition file for GPM Input Template”, Open Mobile Alliance™, OMA-SUP-XSD\_GPM\_PEM1InputTemplate-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [GPM\_XSD\_Output\_Template] “XSD definition file for GPM Output Template”, Open Mobile Alliance™, OMA-SUP-XSD\_GPM\_PEM1OutputTemplate-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [PEEM-ERP] “Enabler Release Package for PEEM”, Open Mobile Alliance™, OMA-ERP-PEEM-V1\_0, [URL:http://www.openmobilealliance.org/](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](http://www.ietf.org/rfc/rfc2119.txt)
- [SCR RULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR\_Rules\_and\_Procedures, [URL:http://www.openmobilealliance.org/](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/](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 and **Error! Reference source not found.** to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

### 3.2 Definitions

<b>Ask Request</b>	An enquiry from GPM to the Ask Target for his/her consent for the release of a Target Attribute.
<b>Ask Target</b>	Any principal (e.g. Permissions Target or Permissions Manager) who receives an Ask Request.
<b>Enabler Release</b>	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.
<b>Minimum Functionality Description</b>	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
<b>Permissions Checking</b>	Processing of Permissions Rules
<b>Permissions Rule</b>	A combination of a condition and a returned decision if the condition is true. The condition is expressed in terms of Target Attributes and other information (e.g. requester identity, intended usage) and the decision indicates what action the requester should take. E.g. if requester = “is in my domain” and “target attribute” = “my location” then grant.
<b>Permissions Target</b>	Any principal (or group of principals) whose Target Attributes are subject to Permissions Rules
<b>Principal</b>	See [OMA-DICT]
<b>Target Attributes</b>	Information pertaining to Permissions Target(s) for which access to is governed by Permissions Rules. Target Attributes can be either static, i.e. that changes relatively infrequently such as information in an address book, or dynamic, i.e. that could change more frequently such as user presence or geographical location.

### 3.3 Abbreviations

<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELD</b>	Enabler Release Definition
<b>GPM</b>	Global Permissions Management
<b>OMA</b>	Open Mobile Alliance
<b>PEM-1</b>	PEEM callable interface
<b>PEM-2</b>	PEEM Management interface

## 4. Release Version Overview

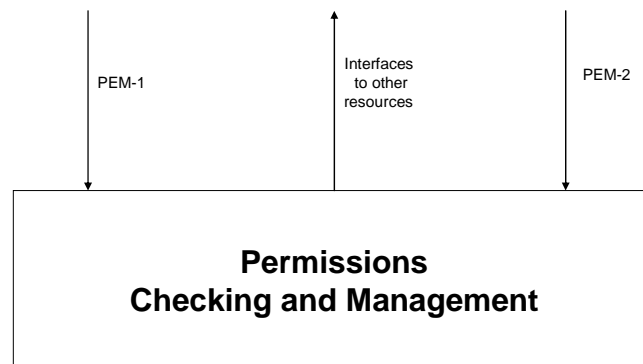
The GPM enabler provides a standardized way to offer processing and management of permissions rules to other enablers.

When a principal requests access to attributes of another (Permissions) Target principal, then the involved enabler(s), can request the GPM enabler via the Permissions Rule Checking interface for permission to grant the requesting principal access to Target Attributes of the Permissions Target.

The GPM enabler provides a standardized way to interact with the Ask Target, to ask for her/his consent to grant access to her/his attributes.

It should be noted that this enabler does not specify individual permissions rules, but rather addresses requirements on how to express permissions management policies.

### 4.1 Version 1.0 Functionality



**Figure 1 Reference Model of OMA GPM**

Figure 1 above shows a functional reference model of the OMA GPM enabler with the different interfaces available.

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

The GPM enabler consists of the Permission Checking and Management component, which provides the following main functions:

- The Permissions Checking function which processes Permissions Rules, and is exposed by a derivative of the PEM-1 interface.
- The Permissions Rules management function for creating, reading, deleting, modifying of Permissions Rules, which is exposed by a derivative of the PEM-2 interface.
- Consent interaction function, which uses the Interfaces to other resources to asks Ask Targets for consent on Permissions Checking decisions (e.g. send Ask Request to Ask Target). This may be performed during processing of Permissions Rules.

## 5. Document Listing for GPM

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[GPM_RD]	OMA-RD-GPM-V1_0-20090331-C	Requirement Document for GPM Enabler
<b>Architecture Document</b>		
[GPM_AD]	OMA-AD-GPM-V1_0-20090710-C	Architecture Document for GPM Enabler
<b>Technical Specifications</b>		
[GPM_TS]	OMA-TS-GPM-V1_0-20111104-C	Interface specification for GPM Enabler
<b>Supporting Files</b>		
[GPM_XSD_Input_Template]	OMA-SUP-XSD_GPM_PEM1InputTemplate-V1_0-20111104-C	XML Schema definitions for the PEM-1 Input Template for GPM Working file in Schema directory: file: GPM_PEM1InputTemplate-v1_0.xsd <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a>
[GPM_XSD_Output_Template]	OMA-SUP-XSD_GPM_PEM1OutputTemplate-V1_0-20111104-C	XML Schema definitions for the PEM-1 Output Template for GPM Working file in Schema directory: file: GPM_PEM1OutputTemplate-v1_0.xsd <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a>

**Table 1: Listing of Documents in GPM 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 GPM

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-GPM-001-M	Permissions Rule Checking	[GPM-TS]
OMA-ERDEF-GPM-002-M	Management of Permissions Rules	[GPM-TS]
OMA-ERDEF-GPM-003-M	Ask Consent	[GPM-TS]

**Table 2: ERDEF for GPM**

## 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 Version: OMA-ERELED-GPM-V1_0	09 Oct 2008	All	Initial draft.
	05 Nov 2008	5, 6	Update document references in section 5 Remove section 6 OMNA Considerations
	08 Nov 2008	2.1, 3.3, 5	Update references to XSD SUP files
	11 Feb 2009	All	Update document references in Section 5 Editorial: 2009 copyright
	23 Feb 2009	5	Update reference to TS
	24 Feb 2009	5	Update reference to revised TS
Candidate Version: OMA-ERELED-GPM-V1_0	31 Mar 2009	All	Status changed to Candidate by TP OMA-TP-2009-0117- INP_GPM_V1_0_ERP_for_Candidate_Approval
Draft Version: OMA-ERELED-GPM-V1_0	28 May 2009	5	Update reference to AD
	01 Jul 2009	5	Updated reference to SUP and TS
Candidate Version: OMA-ERELED-GPM-V1_0	10 Jul 2009	All	Status changed to Candidate by TP OMA-TP-2009-0317-INP_GPM_V1_0_ERP_for_Notification
Draft Version: OMA-ERELED-GPM-V1_0	12 Sep 2011	5	Incorporated agreed CR OMA-ARC-2011-0298- CR_Update_OMA_ERELED_GPM_V1_0_XSD_working_filenames Editorial changes
Candidate Version: OMA-ERELED-GPM-V1_0	04 Nov 2011	All	Status changed to Candidate by TP OMA-TP-2011-0397-INP_GPM_1_0_ERP_for_notification