



# **Enabler Release Definition for GPM**

## **Candidate Version 1.0 – 10 Jul 2009**

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**Open Mobile Alliance**  
OMA-ERELED-GPM-V1\_0-20090710-C

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# 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/>
- [GPM\_RD] “Global Permissions Management Requirements”, Open Mobile Alliance, OMA-RD-GPM-V1\_0, URL:<http://www.openmobilealliance.org/>
- [GPM\_TS] “Global Permissions Management Technical Specification”, Open Mobile Alliance, OMA-TS-GPM-V1\_0, URL:<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/>
- [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/>
- [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>
- [SCR RULES] “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 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>ERELED</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

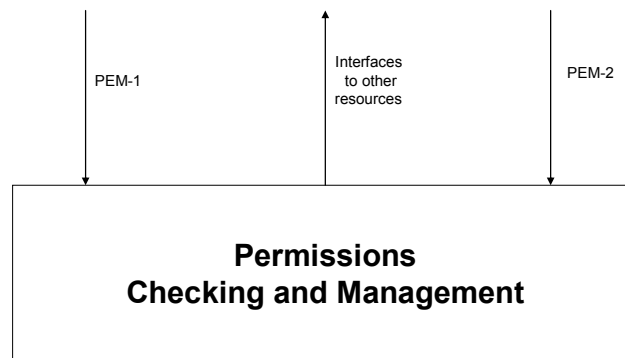
The GPM enabler provides a standardized way to offer processing and management of permissions rules to other enablers.

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_0-20090710-C                         | Interface specification for GPM Enabler   |
| <b>Supporting Files</b>         |  |   |
| [GPM_XSD_Input_Template]        | OMA-SUP-XSD_GPM_PEM1InputTemplate-V1_0-20090710-C  | XML Schema definitions for the PEM-1 Input Template for GPM<br>Working file in Schema directory:<br>file: gpm_pem1InputTemplate-V1_0.xsd<br><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_0-20090710-C | XML Schema definitions for the PEM-1 Output Template for GPM<br>Working file in Schema directory:<br>file: gpm_pem1OutputTemplate-V1_0.xsd<br><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:<br>OMA-ERELED-GPM-V1_0     | 09 Oct 2008 | All         | Initial draft.  |
|   | 05 Nov 2008 | 5, 6        | Update document references in section 5<br>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<br>Editorial: 2009 copyright                              |
|   | 23 Feb 2009 | 5           | Update reference to TS  |
|   | 24 Feb 2009 | 5           | Update reference to revised TS  |
| Candidate Version:<br>OMA-ERELED-GPM-V1_0 | 31 Mar 2009 | All         | Status changed to Candidate by TP<br>OMA-TP-2009-0117-<br>INP_GPM_V1_0_ERP_for_Candidate_Approval |
| Draft Version:<br>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:<br>OMA-ERELED-GPM-V1_0 | 10 Jul 2009 | All         | Status changed to Candidate by TP<br>OMA-TP-2009-0317-INP_GPM_V1_0_ERP_for_Notification           |