



Enabler Release Definition for PEEM

Candidate Version 1.0 – 15 Jul 2009

Open Mobile Alliance
OMA-ERELD-PEEM-V1_0-20090715-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition of PEEM (Policy Evaluation, Endorsement and Management) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [PEEM_AD] “Policy Evaluation, Enforcement and Management Architecture”, Open Mobile Alliance™, OMA-AD_Policy_Evaluation_Enforcement_Management-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM_RD] “Policy Evaluation, Enforcement and Management Requirements”, Open Mobile Alliance™, OMA-RD_Policy_Evaluation_Enforcement_Management-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM_Callable_Policy_Interface] “Policy Evaluation, Enforcement and Management Callable Interface (PEM-1) Technical Specification”, Open Mobile Alliance™, OMA-TS-PEEM_PEM1-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM_Management_Interface] “Policy Evaluation, Enforcement and Management – Management Interface (PEM-2) Technical Specification”, Open Mobile Alliance™, OMA-TS-PEEM_PEM2-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM_Policy_Rule_Language] “PEEM Policy Expression Language Technical Specification”, Open Mobile Alliance™, OMA-TS-PEEM_PEL-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 2.6, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_6, 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 8 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

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
ERELED	Enabler Release Definition
OMA	Open Mobile Alliance
PEEM	Policy Evaluation, Enforcement and Management
PEM-1	PEEM-specified callable interface
PEM-2	PEEM-specified management interface
WSDL	Web Services Description Language
XML	eXtensible Markup Language

4. Release Version Overview

The PEEM enabler provides a standardized way to offer processing and management of policies for other enablers created within OMA.

Policies are applied to requests to, or responses from resources or, when explicitly called by a resource. The PEEM enabler (Policy Evaluation, Enforcement and Management) can be used in proxy and in callable mode.

The PEEM enabler also supports service providers to expose service Enablers in a controlled and manageable manner that can be automated. Policy enforcement can be used to automatically satisfy the policies required to access a particular service enabler.

It should be noted that this enabler does not specify individual policies, but rather addresses requirements on how to express policies. The way policies and policy processing mechanisms are expressed is specified in the enabler documentation listed under section 5 of this document.

4.1 Version 1.0 Functionality

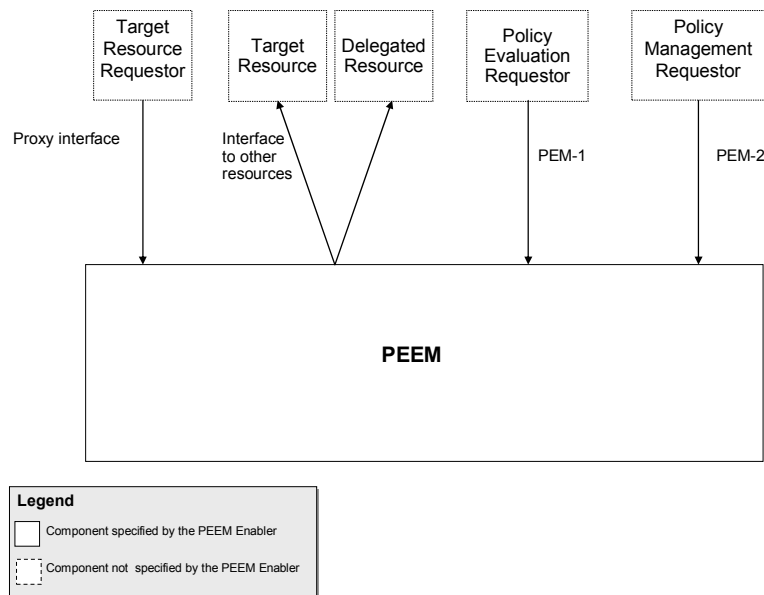


Figure 1: Reference Model of OMA PEEM

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

The PEEM enabler may be used in both proxy and in callable mode. Both modes to interact with the PEEM enabler are described in the [PEEM_AD].

The description of how the PEEM enabler is invoked in Callable mode is specified in the TS [PEEM_Callable_Policy_Interface], the way the PEEM enabler may be used in Proxy mode is described in the [PEEM_AD]. The way the PEEM enabler may be used for management is specified in the TS [PEEM_Management_Interface]. The language definitions used in interacting with the PEEM enabler are specified in the [PEEM_Policy_Rule_Language] and the WSDL files in the supporting files section of the referenced documentation in section 5 of this document.

5. Document Listing for PEEM Enabler

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[PEEM_RD]	OMA-RD- Policy_Evaluation_Enforcement_Management-V1_0-20080805-C	Requirement Document for PEEM Enabler
Architecture Document		
[PEEM_AD]	OMA-AD- Policy_Evaluation_Enforcement_Management-V1_0-20080805-C	Architecture Document for PEEM Enabler
Technical Specifications		
[PEEM_Callable_Policy_Interface]	OMA-TS-PEEM_PEM1-V1_0-20090715-C	Callable Policy interface description including two protocol bindings for Diameter and SOAP
[PEEM_Policy_Rule_Language]	OMA-TS-PEEM_PEL-V1_0-20080805-C	Language description for Policy rule language used by PEEM – two alternatives are defined; rule based, and business process based language.
[PEEM_Management_Interface]	OMA-TS-PEEM_PEM2-V1_0-20081014-C	Management interface for policies, enabling an application to add, remove and modify policies in PEEM
Supporting Files		
[PEM-1_WSDL_Faults]	OMA-SUP-WSDL_PEM_1_faults-V1_0-20080805-C	Mapping error descriptions related to the SOAP binding
[PEM-1_WSDL_REQ]	OMA-SUP-WSDL_PEM_1_REQ-V1_0-20080805-C	Policy Request and Synchronous Response Interface PEM-1 containing SOAP binding
[PEM-1_WSDL_RSP]	OMA-SUP-WSDL_PEM_1_RSP-V1_0-20080805-C	Policy Asynchronous Response / Callback Interface PEM-1 containing SOAP binding
[PEM-1_XSD_Input_Template]	OMA-SUP- XSD_PEM_1_GenericInputTemplateData-V1_0-20090715-C	XML Schema definitions for the PEM-1 Input Template Working file in XML Schema directory: file: PEM_1_GenericInputTemplateData-V1_0.xsd path: http://www.openmobilealliance.org/tech/profiles
[PEM-1_XSD_Output_Template]	OMA-SUP- XSD_PEM_1_GenericOutputTemplateData-V1_0-20090715-C	XML Schema definitions for the PEM-1 Output Template Working file in XML Schema directory: file: PEM_1_GenericOutputTemplateData-V1_0.xsd path: http://www.openmobilealliance.org/tech/profiles

Table 1: Listing of Documents in PEEM 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 PEEM - Policy Processing Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-PEEM-Proc-001-O *	PEEM Callable Mode	[PEEM_Callable_Policy_Interface]
OMA-ERDEF-PEEM-Proc-002-O *	PEEM Proxy Mode	[PEEM_AD]

Table 2: ERDEF for PEEM Policy Processing Requirements

* Support for at least one of these modes is required

8. ERDEF for PEEM - Policy Management Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-PEEM-Man-001-M	PEEM Policy Management	[PEEM_Management_Interface]

Table 3: ERDEF for PEEM Policy Management Requirements

9. ERDEF for PEEM - Policy Expression Language Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-PEEM-Lang-001-O *	PEEM Policy Expression Language - Ruleset	[PEEM_Policy_Rule_Language]
OMA-ERDEF-PEEM-Lang-002-O *	PEEM Policy Expression Language – Business Process	[PEEM_Policy_Rule_Language]

Table 4: ERDEF for PEEM Policy Management Requirements

* Support for at least one of these languages is required

Appendix A. Change History (Informative)

A.1 Approved PEEM Version 1.0 History

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

A.2 Draft/Candidate PEEM Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Version: OMA-ERELED-PEEM-V1_0	20 Dec 2007	ALL	Document draft created, initial baseline.
	10 Jan 2008	ALL	Editorial update: 2008 template Section 5 updated with latest PDs
	03 Apr 2008	All	Editorial fixes: - References and cross-referenes fixed - Listing of documents updated with per new PD versions
	07 Apr 2008	5	SUP files information updated
	17 Jun 2008	4.1	Implemented CONR comment (OMA-CONRR-PEEM-V1_0-20080527-D) to section 4.1
	20 Jun 2008	5	RD, AD, PEL TS information updated.
	27 Jun 2008	5	AD, PEEM-PEM1 and PEEM-PEM2 information updated
	17 Jul 2008	5	RD information updated
Candidate Version: OMA-ERELED-PEEM-V1_0	05 Aug 2008	n/a	TP R&A ref# OMA-TP-2008-0284- INP_PEEM_V1_0_ERP_for_Candidate_Approval
Draft Version: OMA-ERELED-PEEM-V1_0	25 Sep 2008	5	Document Listing updated with revised: OMA-TS-PEEM_PEM1-V1_0 OMA-TS-PEEM_PEM2-V1_0
Candidate Version: OMA-ERELED-PEEM-V1_0	14 Oct 2008	All	Status changed to Candidate by TP: OMA-TP-2008-0378- INP_PEEM_V1_0_ERP_for_Candidate_re_Approval
Draft Version: OMA-ERELED-PEEM-V1_0	08 Dec 2008	5	Document Listing updated with revised: OMA-SUP-XSD_PEM_1_GenericInputTemplateData OMA-SUP-XSD_PEM_1_GenericOutputTemplateData
Candidate Version: OMA-ERELED-PEEM-V1_0	20 Jan 2009	All	Status changed to Candidate by TP: OMA-TP-2008-0498- INP_PEEM_V1_0_ERP_for_Candidate_re_Approval
Draft Version: OMA-ERELED-PEEM-V1_0	06 Jul 2009	5	Document Listing updated with latest documents
Candidate Version: OMA-ERELED-PEEM-V1_0	15 Jul 2009	All	Status changed to Candidate by TP OMA-TP-2009-0326-INP_PEEM_V1_0_ERP_for_Notification