

Enabler Release Definition for PEEM

Candidate Version 1.0 – 05 Aug 2008

Open Mobile Alliance OMA-ERELD-PEEM-V1_0-20080805-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition of PEEM (Policy Evaluation, Endorcement 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 AllianceTM,

OMA-AD Policy Evaluation Enforcement Management-V1 0,

URL:http://www.openmobilealliance.org/

[PEEM_RD] "Policy Evaluation, Enforcement and Management Requirements", Open Mobile AllianceTM,

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, <u>URL:http://www.openmobilealliance.org/</u>

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.6, Open Mobile Alliance™,

OMA-ORG-Dictionary-V2 6, <u>URL:http://www.openmobilealliance.org/</u>

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
ERELD 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

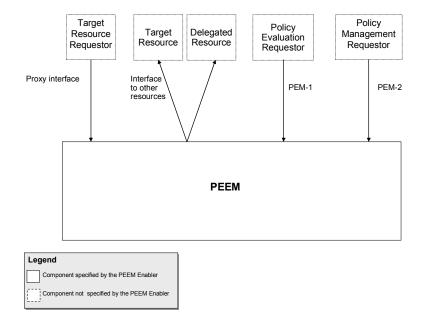


Figure 1: Reference Model of OMA PEEM

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 Proxymode 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

Doc Ref	Permanent Document Reference	Description		
Requirement Document				
[PEEM_RD]	OMA-RD- Policy_Evaluation_Enforcement_Manageme nt-V1_0-20080805-C	Requirement Document for PEEM Enabler		
Architecture Document				
[PEEM_AD]	OMA-AD- Policy_Evaluation_Enforcement_Manageme nt-V1_0-20080805-C	Architecture Document for PEEM Enabler		
Technical Specifications				
[PEEM_Callable_Policy_Interface]	OMA-TS-PEEM_PEM1-V1_0-20080805-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_0-20080805-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-	XML Schema definitions for the PEM-1 Input Template		
	V1_0-20080805-C	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_0-20080805-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

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

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

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-ERELD-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-ERELD-PEEM-V1_0	05 Aug 2008	n/a	TP R&A ref# OMA-TP-2008-0284- INP_PEEM_V1_0_ERP_for_Candidate_Approval