



# **Enabler Release Definition for DPE**

Approved Version 1.0 – 05 Jul 2011

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**Open Mobile Alliance**  
OMA-ERELED-DPE-V1\_0-20110705-A

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# 1. Scope

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

## 2. References

### 2.1 Normative References

- [DPE-AD] “Device Profile Evolution Architecture”, Version 1.0, Open Mobile Alliance™, OMA-AD-DPE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [DPE\_ETR] “Enabler Test Requirements for DPE”, Version 1.0, Open Mobile Alliance™, OMA-ETR-DPE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [DPE-RD] “Device Profile Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD-DPE -V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [DPE-TS] “Device Profile Evolution Technical Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-DPE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMNA] “OMA Naming Authority”. Open Mobile Alliance™. <http://www.openmobilealliance.org/tech/omna.aspx>
- [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)
- [SCRRULES] “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 x.y, Open Mobile Alliance™, OMA-ORG-Dictionary-Vx\_y, [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 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

### 3.2 Definitions

<b>DPE Client</b>	See [DPE-RD].
<b>DPE Server</b>	See [DPE-RD].
<b>Service Provider</b>	See [DPE-AD].
<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.

### 3.3 Abbreviations

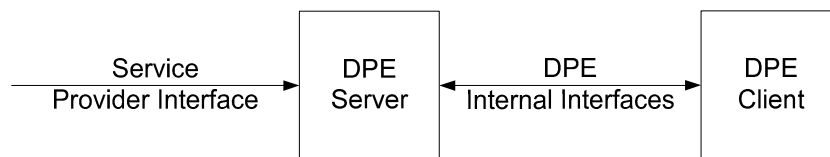
<b>DPE</b>	Device Profile Evolution
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELED</b>	Enabler Release Definition
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority

## 4. Release Version Overview

This document outlines the Enabler Release Definition for Device Profile Evolution (DPE) version 1.0 and the respective conformance requirements for clients and servers claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

The DPE enabler's primary goal is to provide a standardized solution for accessing the status of dynamic device properties. Coupled with the existing OMA User Agent Profile (UAProf) enabler that provides for access to static device capabilities, DPE will provide a more complete device context awareness solution, and thus support improved content/service adaptation.

[DPE-AD] defines the architectural context of the DPE enabler, which includes the enabler entities **DPE Server** and **DPE Client**. In illustration:



**Figure 1: DPE Server and DPE Client**

DPE's specifications address the interfaces and behaviors of the DPE Server and DPE Client. The specifications encompass the following overall functions:

1. Management of DPE sessions between DPE Client and DPE Server
2. Setting up automated property status reporting policies, as requested by Service Providers
3. Automated reporting on properties per the established policies
4. Handling Service Provider requests for on-demand property status reporting

DPE also defines a core vocabulary of dynamic device properties, that is intended to be extensible via the OMNA processes.

### 4.1 Version 1.0 Functionality

This release includes support for all DPE requirements defined in [DPE-RD]. The minimum functionality required for DPE Servers and DPE Clients includes:

1. Management of DPE sessions between DPE Client and DPE Server
2. Setting up automated property status reporting policies, as requested by Service Providers
3. Automated reporting on properties per the established policies
4. Handling Service Provider requests for on-demand property status reporting

## 5. Document Listing for DPE

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[DPE_RD]	OMA-RD-DPE-V1_0-20110705-A	Requirement Document for DPE Enabler
<b>Architecture Document</b>		
[DPE_AD]	OMA-AD-DPE-V1_0-20110705-A	Architecture Document for DPE Enabler
<b>Technical Specifications</b>		
[DPE_TS]	OMA-TS-DPE-V1_0-20110705-A	Specification that defines the interfaces and behaviors for the DPE Client and DPE Server.
[DPE_MO]	OMA-TS-DPE_MO-V1_0-20110705-A	Specification that defines the management object enabling configuration of DPE connection profiles via OMA Device Management.
<b>Supporting Files</b>		
[DPE_XSD]	OMA-SUP-XSD_DPE-V1_0-20110705-A	XML schema for the messages and included elements of the DPE interfaces.  Working file in DTD directory: file: dpe-v1_0.xsd path: <a href="http://www.openmobilealliance.org/Tech/DTD">http://www.openmobilealliance.org/Tech/DTD</a>
[DPE_MO_DDF]	OMA-SUP-MO_DPE-V1_0-20110705-A	DPE Device Management Object Description DTD  Working file in DTD directory: file: oma_dpe_mo-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/dtd/">http://www.openmobilealliance.org/tech/dtd/</a>

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



## 6. OMNA Considerations

DPE includes the following OMNA items:

1. OMA-based Uniform Resource Name (URN), used as the namespace identifier in the DPE schema
  - a. “xmlns:dpe=urn:oma:xml:dpe:1.0”
2. Management Object
  - a. MO Identifier: urn:oma:mo:oma-dpe:1.0
  - b. Description: OMA DPE
  - c. Owner: MCE WG
  - d. Version: 1.0
  - e. MO DDF: oma\_dpe\_mo-v1\_0.ddf
  - f. MO Spec: OMA-TS-DPE\_MO-V1\_0-20090107-D
3. PUSH Application Id
  - a. Number: 0x14
  - b. URN: x-oma-application:dpe.ua
  - c. Description: OMA DPE
4. Content (MIME) Types and tokens
  - a. MIME type of DPE XML messages
    - i. application/vnd.oma.dpe
  - b. MIME type of binary XML tokenized DPE XML messages
    - i. application/vnd.oma.dpec
    - ii. token:
5. DPE XML schema
  - a. [http://www.openmobilealliance.org/tech/profiles/dpe-v1\\_0.xsd](http://www.openmobilealliance.org/tech/profiles/dpe-v1_0.xsd)
6. WBXML Document Public Identifier and token
  - a. -//OMA//DPE 1.0//EN
  - b. (to be assigned)

## 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 DPE - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DPE-C-001-M	DPE Client	[DPE-TS]:MCF

Table 2: ERDEF for DPE Client-side Requirements

## 9. ERDEF for DPE - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DPE-S-001-M	DPE Server	[DPE-TS]:MSF

**Table 3: ERDEF for DPE Server-side Requirements**

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ERELD-DPE-V1_0-20110705-A	05 Jul 2011	Status changed to Approved by TP: OMA-TP-2011-0225-INP_DPE_V1_0_ERP_for_Final_Approval