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 DPE .................................................................................................................................. 8

6. OMNA CONSIDERATIONS ........................................................................................................................................... 9

7. CONFORMANCE REQUIREMENTS NOTATION DETAILS ........................................................................................... 10

8. ERDEF FOR DPE - CLIENT REQUIREMENTS ............................................................................................................ 11

9. ERDEF FOR DPE - SERVER REQUIREMENTS .......................................................................................................... 12

APPENDIX A. CHANGE HISTORY (INFORMATIVE) ........................................................................................................ 13
   A.1 APPROVED VERSION HISTORY ............................................................................................................................. 13
   A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY ........................................................................................................... 13

Figures

Figure 1: DPE Server and DPE Client..................................................................................................................................... 7

Tables

Table 1: Listing of Documents in DPE Enabler ...................................................................................................................... 8
Table 2: ERDEF for DPE Client-side Requirements ............................................................................................................ 11
Table 3: ERDEF for DPE Server-side Requirements ........................................................................................................... 12
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_ETR] “Enabler Test Requirements for DPE”, Version 1.0, Open Mobile Alliance™, OMA-ETR-DPE-V1_0, URL: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/


2.2  Informative References

# 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

- **DPE Client**: See [DPE-RD].
- **DPE Server**: See [DPE-RD].
- **Service Provider**: See [DPE-AD].
- **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

- **DPE**: Device Profile Evolution
- **ERDEF**: Enabler Requirement Definition
- **ERELD**: Enabler Release Definition
- **OMA**: Open Mobile Alliance
- **OMNA**: 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:

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.

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[DPE_RD]</td>
<td>OMA-RD-DPE-V1_0-20070209-C</td>
<td>Requirement Document for DPE Enabler</td>
</tr>
<tr>
<td>[DPE_AD]</td>
<td>OMA-AD-DPE-V1_0-20090818-C</td>
<td>Architecture Document for DPE Enabler</td>
</tr>
<tr>
<td>[DPE_TS]</td>
<td>OMA-TS-DPE-V1_0-20090818-C</td>
<td>Specification that defines the interfaces and behaviors for the DPE Client and DPE Server.</td>
</tr>
<tr>
<td>[DPE_MO]</td>
<td>OMA-TS-DPE_MO-V1_0-20090818-C</td>
<td>Specification that defines the management object enabling configuration of DPE connection profiles via OMA Device Management.</td>
</tr>
<tr>
<td>[DPE_XSD]</td>
<td>OMA-SUP-XSD_DPE-V1_0-20090818-C</td>
<td>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></td>
</tr>
</tbody>
</table>

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

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:

<table>
<thead>
<tr>
<th>Item:</th>
<th>Entry in this column MUST be a valid ScrItem according to [SCRRULES].</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature/Application:</td>
<td>Entry in this column SHOULD be a short descriptive label to the Item in question.</td>
</tr>
<tr>
<td>Requirement:</td>
<td>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.</td>
</tr>
</tbody>
</table>
8. ERDEF for DPE - Client Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-DPE-C-001-M</td>
<td>DPE Client</td>
<td>[DPE-TS]:MCF</td>
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</table>

Table 2: ERDEF for DPE Client-side Requirements
9. ERDEF for DPE - Server Requirements

This section is normative.

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<th>Feature / Application</th>
<th>Requirement</th>
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</thead>
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<td>DPE Server</td>
<td>[DPE-TS]:MSF</td>
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</table>

Table 3: ERDEF for DPE Server-side Requirements
Appendix A. Change History

A.1 Approved Version History

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A.2 Draft/Candidate Version 1.0 History

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<th>Date</th>
<th>Sections</th>
<th>Description</th>
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<td>All</td>
<td>Initial draft</td>
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<tr>
<td>OMA-ERELE-DPE-V1_0</td>
<td>28 Jan 2009</td>
<td>All</td>
<td>Editorial fixes:</td>
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<td>Status changed to Candidate by TP:</td>
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