



# **Enabler Release Definition for XML Document Management**

## **Candidate Version 1.1 – 28 Jan 2008**

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**Open Mobile Alliance**  
OMA-ERELED-XDM-V1\_1-20080128-C

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# 1. Scope

The scope of this document is limited to the Enabler Release Definition of the XML Document Management (XDM) V1.1 enabler according to OMA Release process and the Enabler Release specification baseline listed in section 5.

## 2. References

### 2.1 Normative References

- [Dict] “Dictionary for OMA Specifications”, Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_4, URL: <http://www.openmobilealliance.org>
- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.5, Open Mobile Alliance™, OMA-ORG-IOP\_Process-V1\_5, URL: <http://www.openmobilealliance.org/>
- [Shared\_XDM] “Shared XDM Specification”, Version 1.1, Open Mobile Alliance™, OMA-TS-XDM\_Shared -V1\_1, URL: <http://www.openmobilealliance.org/>
- [XDM\_RD] “XLM Document Management Requirements” Version 1.1, Open Mobile Alliance™, OMA-RD-XDM-V1\_1, Version 1.1, URL: <http://www.openmobilealliance.org/>
- [XDM\_MO] “OMA Management Object for XML Document Management”, Version 1.1, Open Mobile Alliance™, OMA-TS-XDM\_MO-V1\_1, URL: <http://www.openmobilealliance.org/>
- [XDM\_Core] “XML Document Management (XDM) Specification” Version 1.1, Open Mobile Alliance™, OMA-TS-XDM\_Core-V1\_1, URL: <http://www.openmobilealliance.org/>
- [XSD\_APPUSAGE] “XDM Resource List Elements – appusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_rsrclist\_appusage-V1\_0, URL: <http://www.openmobilealliance.org/>
- [XSD\_COMMONPOL] “XDM – Common Policy”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_commonPolicy-V1\_0, URL: <http://www.openmobilealliance.org/>
- [XSD\_URIUSAGE] “XDM Resource List Elements – uriusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_rsrclist\_uriusage-V1\_0, URL: <http://www.openmobilealliance.org/>
- [XSD\_XCAPDIR] “XDM – XCAP Directory”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_xcapDirectory-V1\_0, URL: <http://www.openmobilealliance.org/>
- [XSD\_XCAPERR] “XDM – XCAP Error”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_xcapError-V1\_0, URL: <http://www.openmobilealliance.org/>
- [XDM\_AC] “XDM Application Characteristics file of XDM V1.1”, Version 1.0, Open Mobile Alliance™, OMA-SUP-AC\_ap0003\_xdm-v1\_0, URL: <http://www.openmobilealliance.org>
- [RFC4825] IETF RFC 4825 “The Extensible Markup Language (XML) Configuration Access protocol (XCAP)”, J. Rosenberg, May 2007, URL: <http://www.ietf.org/rfc/rfc4825.txt>

### 2.2 Informative References

- [PoC\_XDM] “PoC XDM Specification”, Open Mobile Alliance™, Version 1.0.1, OMA-TS-XDM\_PoC-V1\_0, URL: <http://www.openmobilealliance.org/>
- [Presence\_XDM] “Presence XML Document Management Specification”, Version 1.1 Open Mobile Alliance™, OMA-TS-Presence\_SIMPLE\_XDM-V1\_1, URL: <http://www.openmobilealliance.org/>
- [RLS\_XDM] “Resource List Service (RLS) XDM Specification” Version 1.1, Open Mobile Alliance™, OMA-TS-Presence\_SIMPLE\_RLS\_XDM-V1\_1, 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 [CREQ].

### 3.2 Definitions

<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>Application Usage</b>	Detailed information on the interaction of an application with an XCAP server. (Source: [RFC4825])
<b>Principal</b>	An entity that has an identity, that is capable of providing consent and other data, and to which authenticated actions are done on its behalf. Examples of principals include an individual user, a group of individuals, a corporation, service enablers/applications, system entities and other legal entities (Source: [Dict])
<b>XCAP Server</b>	An HTTP server that understands how to follow the naming and validation constraints defined in this specification. (Source: [RFC4825])

### 3.3 Abbreviations

<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELD</b>	Enabler Release Definition
<b>IETF</b>	Internet Engineering Task Force
<b>OMA</b>	Open Mobile Alliance
<b>SIP</b>	Session Initiation Protocol
<b>URI</b>	Uniform Resource Identifier
<b>XCAP</b>	XML Configuration Access Protocol
<b>XDM</b>	XML Document Management
<b>XDMS</b>	XML Document Management Server
<b>XML</b>	Extensible Markup Language

## 4. Release Version Overview

### 4.1 Version 1.0 Functionality

The XML Document Management (XDM) enabler defines a common mechanism that makes user-specific service-related information accessible to the service enablers that need it. XDM specifies how such information is represented in well-structured XML documents, as well as the common protocol for access and manipulation (e.g. created, changed, deleted, etc.) of such XML documents.

The XDM Specification [XDM\_Core] defines the features of the XDM enabler, which include the following:

- The common protocol, XML Configuration Access Protocol (XCAP) [RFC4825], by which Principals can store and manipulate their service-related data, stored in the network as XML documents.
- The SIP subscription/notification mechanism by which Principals can be notified of changes to such documents.

Documents accessed and manipulated via XCAP are stored in logical repositories in the network, called XML Document Management Servers (XDMS). Each repository may be associated with a functional entity which uses its data to perform its functions.

Each XML document stored in an XDMS is described as an Application Usage, which enables applications to use the document via XCAP. The XDM enabler describes Application Usages which can be reused by multiple enablers and are stored in logical entities called Shared XDMSs. The documents defined by the XDM V1.0 enabler are as follows:

- URI List and Group Usage List documents stored in the Shared XDMS.

### 4.2 Version 1.1 Functionality

The XDM V1.1 enabler removes the following functionality from XDM V1.0:

- The SIP subscription/notification mechanism by which Principals can be notified of changes to XML documents stored in an XDMS. This functionality is removed due to dependencies on specifications external to OMA which are not published.

XDM V1.1 also includes minor bug fixes and clarifications, but does not define any new functionality compared to the XDM V1.0.

NOTE: The XDM V1.1 Enabler Release is intended to obsolete V1.0. It is therefore recommended that implementations not use the XDM V1.0 Enabler Release.

## 5. Document Listing for XDM

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[XDM_RD]	OMA-RD-XDM-V1_1-20080128-C	Requirement Document for XDM Enabler
<b>Architecture Document</b>		
[XDM_AD]	OMA-AD-XDM-V1_1-20080128-C	Architecture Document for XDM Enabler
<b>Technical Specifications</b>		
[XDM_Core]	OMA-TS-XDM_Core-V1_1-20080128-C	Defines common protocols, data access conventions, common data application usages, and functional entities that are needed to provide XDM services to other enablers.
[Shared_XDM]	OMA-TS-XDM_Shared-V1_1-20080128-C	Defines the data format and Application Usage for URI List document and Group Usage List document.
[XDM_MO]	OMA-TS-XDM_MO-V1_1-20080128-C	Defines the OMA XDM Management Object (MO).
<b>Supporting Files</b>		
[XSD_APPUSAGE]	OMA-SUP-XSD_xdm_rsrclst_appusage-V1_0_1-20080128-C	OMA PAG XDM Resource List Elements – appusage Schema Working file in schema directory: file: xdm_rsrclst_appusage-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_COMMONPOL]	OMA-SUP-XSD_xdm_commonPolicy-V1_0_2-20080128-C	OMA PAG XDM Common Policy Schema Working file in schema directory: file: xdm_commonPolicy-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_URIUSAGE]	OMA-SUP-XSD_xdm_rsrclst_uriusage-V1_0_1-20080128-C	OMA PAG XDM Resource List Elements – uriusage Schema Working file in schema directory: file: xdm_rsrclst_uriusage-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_XCAPDIR]	OMA-SUP-XSD_xdm_xcapDirectory-V1_0_2-20080128-C	OMA PAG XDM XCAP Directory Schema Working file in schema directory: file: xdm_xcapDirectory-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_XCAPERR]	OMA-SUP-XSD_xdm_xcapError-V1_0_1-20080128-C	OMA PAG XDM XCAP Error Schema Working file in schema directory: file: xdm_xcapError-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XDM_AC]	OMA-SUP-AC_ap0003_xdm-V1_0-20080128-C	Description of the Application Characteristic for XDM. This aligns with the provisioning spec. Working file in Application Characteristics directory: file: ac_ap0003_xdm-v1_0.txt path: <a href="http://www.openmobilealliance.org/tech/omna-dm-ac/">http://www.openmobilealliance.org/tech/omna-dm-ac/</a>

**Table 1: Listing of documents in XDM 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 [IOPPROC].
- Feature/Application:** Entry in this column SHOULD be a short descriptive label to the **Item** in question.
- Status:** Entry in this column MUST accurately reflect the architectural status of the **Item** in question.
- M means the **Item** is mandatory for the class
  - O means the **Item** is optional for the class
  - NA means the **Item** is not applicable for the class
- Requirement:** Expression in the column MUST be a valid TerminalExpression according to [IOPPROC] and it MUST accurately reflect the architectural requirement of the **Item** in question.

## 7. ERDEF for XDM - Client Requirements

This section is normative.

Item	Feature / Application	Status	Requirement
OMA-ERDEF-XDM-C-001	XCAP protocol, common XCAP application usages and manipulation of shared URI Lists	M	XDMSPEC: MCF AND Shared_XDM: MCF

**Table 2: ERDEF for XDM Client-side Requirements**

## 8. ERDEF for XDM - Server Requirements

This section is normative.

Item	Feature / Application	Status	Requirement
OMA-ERDEF-XDM-S-002	Shared XDMS functions	M	Shared_XDM: MSF

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

## 9. ERDEF for XDM – Aggregation Proxy Requirements

This section is normative.

Item	Feature / Application	Status	Requirement
OMA-ERDEF-XDM-S-001	XCAP protocol and common XCAP Application Usages	M	XDMSPEC: MSF

**Table 4: ERDEF for Aggregation Proxy Requirements**

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ERELED_XDM-V1_0-20060612-A	12 Jun 2006	Status changed to approved OMA-TP-2006-0196R03-INP_XDM_V1_0_for_final_approval.
OMA-ERELED_XDM-V1_0_1-20061128-A	28 Nov 2006	Date strings updated in section 6 and editorial changes, Presence and XDM references changed from 1.0 to 1.0.1. Class 2 and 3 CRs agreed against: OMA-TS-XDM_Core-V1_0_1 OMA-TS-XDM_MO-V1_0_1 OMA-TS-XDM_Shared-V1_0_1 OMA-SUP-XSD_xdm_CommonPolicy-V1_0_1 OMA-SUP-XSD_xdm_xcapDirectory-V1_0_1

### A.2 Draft/Candidate Version 1.1 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELED-XDM-V1_1	24 Aug 2007	n/a	Baseline prepared based on the XDM1.0 ERELD, with the following modifications; updating references, mirrors of changes made to the XDM2.0 ERELD and Brief description of differences between XDM1.1 and XDM1.0 (ref # OMA-PAG-2007-0453R01-INP_XDM1.1_ERELED).
	30 Aug 2007	2, 6	Editorial corrections of PD references
	09 Oct 2007	2.1, 2.2, 6	Incorporated CR: OMA-PAG-2007-0619R01
	12 Dec 2007	n/a	Editorial changes
	13 Dec 2007	6	Updated date of AD
	14 Dec 2007	6	Updated date of Shared XDM TS
	02 Jan 2008	4	Applying new template
	08 Jan 2008	Various	Editorial changes, including comments received on PAG reflector
Candidate Versions OMA-ERELED-XDM-V1_1	28 Jan 2008	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2007-0505R03-INP_XDM_V1_1_for_Candidate_approval