



# Enabler Release Definition for XML Document Management

## Approved Version 2.2 – 03 May 2016

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**Open Mobile Alliance**  
OMA-ERELED-XDM-V2\_2-20160503-A

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# 1. Scope

The scope of this document is limited to the Enabler Release Definition of XML Document Management Version 2.2 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

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[XSD_userProf]	“XML Schema Definition: XDM User Profile”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_xdm_userProfile-V1_0, <a href="http://www.openmobilealliance.org/">URL: http://www.openmobilealliance.org/</a>
[XSD_xcapDir]	“XML Schema Definition: XDM – XCAP Directory”, Version 1.0.1, Open Mobile Alliance™, OMA-SUP-XSD_xdm_xcapDirectory-V1_0_1, <a href="http://www.openmobilealliance.org/">URL: http://www.openmobilealliance.org/</a>  Note: Extensions to XCAP Dir are TBD
[XSD_xcapErr]	“XML Schema Definition: XDM – XCAP Error”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_xdm_xcapError-V1_0, <a href="http://www.openmobilealliance.org/">URL: http://www.openmobilealliance.org/</a>
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## 2.2 Informative References

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## 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>Application Usage</b>	Detailed information on the interaction of an application with an XCAP server. (Source: [RFC4825])
<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>Principal</b>	Use definition from [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>CPM</b>	Converged IP Messaging
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELED</b>	Enabler Release Definition
<b>IM</b>	Instant Messaging
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority
<b>PoC</b>	Push to Talk over Cellular
<b>UPP</b>	User Preferences Profile
<b>URI</b>	Uniform Resource Identifier
<b>XCAP</b>	XML Configuration Access Protocol
<b>XDCP</b>	XDM Command Protocol
<b>XDM</b>	XML Document Management
<b>XML</b>	Extensible Markup Language

## 4. Release Version Overview

### 4.1 Version 1.1 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.

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 V1.1 enabler are as follows:

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

### 4.2 Version 2.0 Functionality

The XDM V2.0 enabler defines new functionality that extends XDM to support the OMA SIMPLE Instant Messaging (IM) V1.0 and Push-to-talk over Cellular (PoC) V2.0 enablers.

To accommodate the needs of these enablers, the following functionality is added in XDM V2.0:

- Search for information in documents stored in an XDMS;
- Network to Network Interface to enable search and retrieval of information across multiple domains; and
- The SIP subscription/notification mechanism by which Principals can be notified of changes to XML documents.

XDM V2.0 inherits the Shared XDMS from XDM V1.0, but renames it as the Shared List XDMS [XDM\_List] to accommodate several new documents that are stored in separate Shared XDMS logical entities:

- Group document stored in the Shared Group XDMS [XDM\_Group];
- User Access Policy document stored in the Shared Policy XDMS [XDM\_Policy]; and
- User Profile document stored in the Shared Profile XDMS [XDM\_Profile].

The Group and User Access Policy document structures are based on those of the PoC Group and PoC User Access Policy documents [PoC\_XDM], respectively. The XDM V2.0 enabler defines how to handle backwards compatibility with the PoC V1.0 enabler when the Shared Group XDMS and Shared Policy XDMS are introduced in the network.

### 4.3 Version 2.1 Functionality

The XDM V2.1 enabler defines new functionality that extends XDM to support the OMA Converged IP Messaging (CPM), OMA Converged Address Book (CAB) and OMA PoC 2.1 (Push to Talk over Cellular) enablers.

To accommodate the needs of this enabler, the following functionality is added in XDM V2.1:

- Access permissions to define which Principals have rights to perform XDM functions to an XML document;
- Document history management in order to capture some (or all) changes applied to an XML document;



- An HTTP POST based protocol, XDCP, enabling additional document operations;
- Subscription to and notification of changes in XDM Documents using XDCP and OMA Push Enabler; and
- User Preferences Profile document stored in an XDMS.

## 4.4 Version 2.2 Functionality

This version adds support for operations on Application Usages with multiple documents.

## 5. Document Listing for XML Document Management 2.2

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[XDM_RD]	OMA-RD-XDM-V2_2-20160503-A	Requirement Document for XDM Enabler
<b>Architecture Document</b>		
[XDM_AD]	OMA-AD-XDM-V2_1-20120403-A	Architecture document for XDM enabler
<b>Technical Specifications</b>		
[XDM_Core]	OMA-TS-XDM_Core-V2_2-20160503-A	Defines common protocols, data access conventions, common application usages, and the functional entities that are needed to provide XDM services to other enablers.
[XDM_Group]	OMA-TS-XDM_Group-V1_1-20120403-A	Defines the data format and Application Usage for the Group document.
[XDM_List]	OMA-TS-XDM_List-V2_1-20120403-A	Defines the data format and Application Usage for the URI List document and the Group Usage List document.
[XDM_Policy]	OMA-TS-XDM_Policy-V1_1-20120403-A	Defines the data format and Application Usage for the User Access Policy document.
[XDM_Profile]	OMA-TS-XDM_Profile-V1_1-20120403-A	Defines the data format and Application Usage for the User Profile document.
[XDM_UPP_Directory]	OMA-TS-XDM_UPP_Directory-V1_0-20120403-A	Defines the data format and Application Usage for the UPP Directory document.
[XDM_MO]	OMA-TS-XDM_MO-V2_1-20120403-A	Defines the OMA XDM Management Object (MO).
<b>Supporting Files</b>		
[XSD_ext]	OMA-SUP-XSD_xdm_extensions-V1_0_1-20160503-A	XML schema for XDM V2.0 extensions Working file in schema directory: file: xdm_extensions-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_commPol]	OMA-SUP-XSD_xdm_commonPolicy-V1_0_3-20160503-A	XML scherma for XDM V1.1 Common Policy Extensions 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_search]	OMA-SUP-XSD_xdm_search-V1_0_1-20160503-A	XML Schema for Search document Working file in schema directory: file: xdm_search-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_userProf]	OMA-SUP-XSD_xdm_userProfile-V1_0_1-20160503-A	XML Schema for User Profile document Working file in schema directory: file: xdm_userProfile-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_ext_2_1]	OMA-SUP-XSD_xdm_2_1_extensions-V1_0_1-20160503-A	XML Schema for XDM V2.1 extensions Working file in schema directory: file: xdm_2_1_extensions-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>

[XSD_appusage]	OMA-SUP-XSD_xdm_rsrlst_appusage-V1_0_2-20160503-A	XML Schema for Resource List extension – appusages element  Working file in schema directory: file: xdm_rsrlst_appusage-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_uppDirectory]	OMA-SUP-XSD_xdm_uppDirectory-V1_0_1-20160503-A	XML Schema for UPP Directory Document  Working file in schema directory: file: xdm_uppDirectory-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_rsrlst_uriusage-V1_0_2-20160503-A	XML Schema for Resource List extension – uriusages element  Working file in schema directory: file: xdm_rsrlst_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_3-20160503-A	XML Schema for XCAP Directory Document  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_3-20160503-A	XML Schema for XCAP Error extensions  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>
[XSD_xdcp]	OMA-SUP-XSD_xdm_xdcp-V1_0_1-20160503-A	XML Schema for XDCP Commands  Working file in schema directory: file: xdm_xdcp-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_fnl]	OMA-SUP-XSD_xdm_forwarding_notification_list-V1_0_1-20160503-A	XML Schema for Forwarding Notification List Document  Working file in schema directory: file: xdm_forwarding_notification_list-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_ap]	OMA-SUP-XSD_xdm_access_permissions-V1_0_1-20160503-A	XML Schema for Access Permissions Document  Working file in schema directory: file: xdm_access_permissions-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_reqHist]	OMA-SUP-XSD_xdm_request_history-V1_0_1-20160503-A	XML Schema for Request History Document  Working file in schema directory: file: xdm_request_history-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_apList]	OMA-SUP-XSD_xdm_access_permissions_list-V1_0_1-20160503-A	XML Schema for Access Permissions List Document  Working file in schema directory: file: xdm_access_permissions_list-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_aliasList]	OMA-SUP-XSD_xdm_alias_principals_list-V1_0_1-20160503-A	XML Schema for Alias Principals List Document  Working file in schema directory: file: xdm_alias_principals_list-V1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>

[XSD_modHist]	OMA-SUP-XSD_xdm_modification_history-V1_0_1-20160503-A	XML Schema for Modification History Information Document  Working file in schema directory: file: xdm_modification_history-V1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_xdmPref]	OMA-SUP-XSD_xdm_xdmPreferences-V1_0_1-20160503-A	XML Schema for XDM Preferences Document  Working file in schema directory: file: xdm_xdmPreferences-V1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>
[XSD_xdm_22_ext]	OMA-SUP-XSD_xdm_2_2_extensions-V1_0-20160503-A	XML Schema for XDM 2.2 Extensions Document  Working file in schema directory: file: xdm_2_2_extensions-V1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>

**Table 1: Listing of documents in XDM Enabler**

## 6. OMNA Considerations

OMNA SHALL register the following new MIME types defined in XDM2.1 Enabler.

<b>MIME Type value</b>	<b>Purpose</b>
“application/vnd.oma.xdm-apd+xml”	Access Permission Document
“application/vnd.oma.fnl+xml”	Forwarding Notification List Document
application/vnd.oma.access-permissions-list+xml	Access Permission List Document
application/vnd.oma.alias-principals-list+xml	Alias Principals List Document
application/upp-directory+xml	UPP Directory Document
application/vnd.oma.xdm-hi+xml	Modification History Information Document
application/vnd.oma.xdm-rhi+xml	Request History Information Document
application/vnd.oma.xdm-prefs+xml	XDM Preferences Document
application/vnd.oma.xdcp+xml	XDCP Document

## 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 XDM – Client Requirements

This section is normative.

Item	Feature / Application	Requirement

Table 2: ERDEF for XDM Client-side Requirements

## 9. ERDEF for XDM – Server Requirements

This section is normative.

Item	Feature / Application	Requirement

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



## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ERELED-XDM-V2_2-20160503-A	03 May 2016	Status changed to Approved by TP TP Ref # OMA-TP-2016-0052R01-INP_XDM_V2_2_ERP_for_final_Approval