OMA Management Object for XML Document Management

Candidate Version 2.1 – 24 Aug 2010

Open Mobile Alliance

OMA-TS-XDM_MO-V2_1-20100824-C

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Figures

1. Scope

This document defines the OMA XDM Management Object (MO). The MO is defined using the OMA DM Device Description Framework.

2. References

2.1 Normative References

[DM_ERELD] "Enabler Release Definition for OMA Device Management", Version 1.2, Open Mobile Alliance™, OMA-ERELD-DM-V1_2,
URL: http://www.openmobilealliance.org/

[DM_StdObj] "OMA Device Management Standardized Objects", Version 1.2, Open Mobile Alliance™, OMA-TS-DMStdObj-V1_2,
URL: http://www.openmobilealliance.org/

[DM_TND] "OMA Device Management Tree and Description", Version 1.2, Open Mobile Alliance™, OMA-TS-DMTND-V1_2,
URL: http://www.openmobilealliance.org/

[RFC2119] IETF RFC 2119 "Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997,
URL: http://www.ietf.org/rfc/rfc2119.txt

[XDM_Core] "XML Document Management Specification", Version 2.0, Open Mobile Alliance™, OMA-TS-XDM_Core-V2_0,
URL: http://www.openmobilealliance.org/

2.2 Informative References

[XDM_RD] "XML Document Management Requirements", Version 2.0, Open Mobile Alliance™, OMA-RD-XDM-V2_0,
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” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

See the DM Tree and Description [DM_TND] document for definitions of terms related to the management tree.

3.3 Abbreviations

DM	Device Management
GAA	Generic Authentication Architecture
HTTP	Hyper Text Transfer Protocol
MO	Management Object
OMA	Open Mobile Alliance
URI	Uniform Resource Identifier
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XML	eXtensible Markup Language

4. Introduction

This document describes the OMA XDM management object syntax that allows configuration deployment to OMA XDM clients. No new management object is added in this version.

5. OMA XDM Management Object

This subclause defines the mobile device Management Object (MO) for OMA XDM. The MO MAY be used for initial provisioning of parameters when the DM Profile is to be used, and the MO SHOULD be used for continuous provisioning, which allows the service provider to update any parameter defined in the MO tree for service configurations during service deployment [DM_ERELD].

The OMA XDM Management Object consists of relevant parameters required by [XDM_RD]. It is defined using the OMA DM Device Description Framework as described in [DM_TND] and [DM_StdObj].

Protocol compatibility: This MO is compatible with OMA DM 1.2 [DM_ERELD].

Management object name: OMA_XDM

5.1 Management Object Tree

Figure 1 shows the nodes and leaf objects for XDM continuous provisioning:

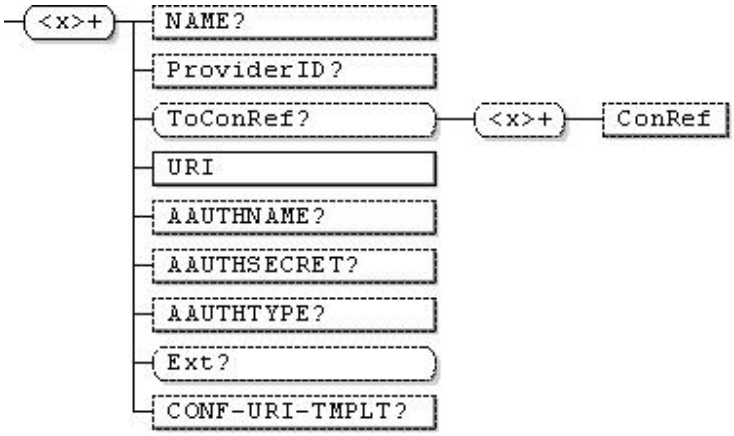

Figure 1: The OMA XDM Management Object tree

5.2 Management Object Parameters

This section describes the parameters for the OMA XDM Management Object.

5.2.1 Node: /<x>

<x>

Status	Tree Occurrence	Format	Min. Access Types
Required	OneOrMore	node	Get

This interior node acts as a placeholder for one or more accounts for a fixed node. The interior node is mandatory if the UE supports OMA XDM.

The Management Object Identifier is: “urn:oma:mo:oma-xdm:2.0”

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5.2.2 Node: /<x>/NAME

NAME

Status	Tree Occurrence	Format	Min. Access Types

Optional	ZeroOrOne	chr	Get

The Name leaf node is the application name, which is to be displayed in the user's equipment. It is specific for each service provider. Possible value is any user displayable name.

5.2.3 Node: /<x>/ProviderID

ProviderID

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get

The ProviderID leaf node provides an identifier for the provider of this service.

5.2.4 Node: /<x>/ToConRef

ToConRef

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	node	Get

The ToConRef interior node is used to allow an application to refer to a collection of connectivity definitions. Several connectivity parameters may be listed for a given application under this interior node.

5.2.5 Node: /<x>/ToConRef/<X>

ToConRef/<X>

Status	Tree Occurrence	Format	Min. Access Types
Optional	OneOrMore	node	Get,

This run-time node acts as a placeholder for one or more connectivity parameters.

5.2.6 Node: /<x>/ToConRef/<X>/ConRef

ToConRef/<X>/ConRef

Status	Tree Occurrence	Format	Min. Access Types
Optional	One	chr	Get,

The ConRef leaf node indicates the linkage to connectivity parameters. This parameter provides an identifier for the application service access point described by an APPLICATION characteristic, in this case the NAP ID and the SIP/IP core. Possible value is a relative URI.

5.2.7 Node: /<x>/URI

URI

Status	Tree Occurrence	Format	Min. Access Types
Required	One	chr	Get,

This parameter defines the root of all XDM resources (this is the Aggregation Proxy address). This is useful when accessing via XCAP. Possible value is a relative HTTP URI.

5.2.8 Node: /<x>/ AAUTHNAME

AAUTHNAME

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get,

This parameter defines the user name for XDM Client authentication using HTTP digest.

5.2.9 Node: /<x>/AAUTHSECRET

AAUTHSECRET

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get,

This parameter defines the password for XDM Client authentication using HTTP digest. Possible value is any user specific value

5.2.10 Node: /<x>/AAUTHTYPE

AAUTHTYPE

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get,

This parameter defines the authentication type for XDM Client authentication. Possible value is a token which can be either “GAA” indicating GAA authentication or “Digest” indicating HTTP Digest

5.2.11 Node: /<x>/Ext

Ext

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	node	Get,

The Ext is an interior node where the vendor-specific information about the XDM MO is placed (vendor means application vendor, device vendor etc.). Usually the vendor extension is identified by a vendor-specific name under the ext node. The tree structure under the vendor identified is not defined and can therefore include a non-standardized sub-tree.

5.2.12 Node: /<x>/CONF-URI-TMPLT

CONF-URI-TMPLT

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get,

The Conference URI Template specifies the syntax of the conference URI of Groups stored in the Shared Group XDMS. The Conference URI Template SHALL be a URI Template as specified in [XDM_Core]. Possible value is a SIP URI

Appendix A. Change History (Informative)

A.1 Approved Version 2.1 History

Reference	Date	Description
n/a	n/a	No prior version

A.2 Draft/Candidate Version 2.1 History

Document Identifier	Date	Sections	Description
Draft versions OMA-TS-XDM_MO-V2_1	14 Apr 2009	n/a	Baseline created from OMA-TS-XDM_MO-V2_0-20080916-C. Application of 2009 template (section 4)
	29 Oct 2009	5	Incorporated CR: OMA-PAG-2009-0346-CR_XDM2_1_MO_new_format
	26 Jul 2010	4	Incorporated CR: OMA-COM-XDM-2010-0319R01-CR__XDM2.1_MO_Introduction_Section_Changes
Candidate version OMA-TS-XDM_MO-V2_1	24 Aug 2010	N/A	Status changed to Candidate by TP TP ref # OMA-TP-2010-0368-INP_XDM_V2.1_ERP_and_ETR_for_Candidate_approval