OMA Management Object for XML Document Management

Candidate Version 2.0 – 16 Sep 2008

Open Mobile Alliance

OMA-TS-XDM_MO-V2_0-20080916-C

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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.

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].

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

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:

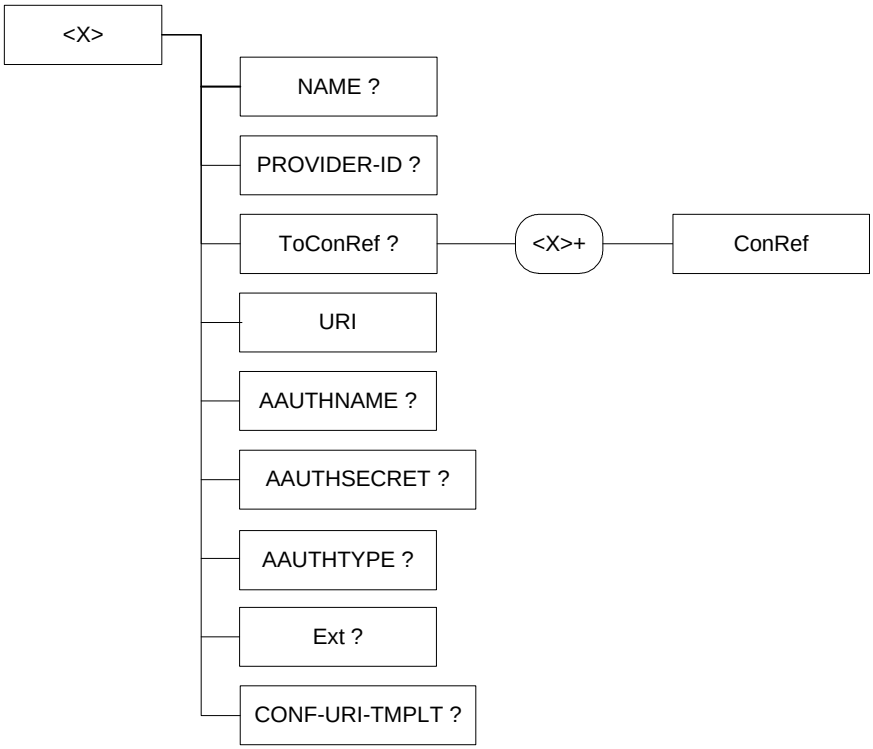

Figure 1: The OMA XDM Management Object tree

5.2 Management Object Parameters

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

5.2.1 Node: /<X>

This interior node acts as a placeholder for one or more accounts for a fixed node.

- Occurrence: OneOrMore
- Format: Node
- Access Types: Get
- Values: N/A
- Status: Mandatory

The interior node is mandatory if the UE supports OMA XDM.

5.2.2 Node: /<X>/NAME

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

- Occurrence: ZeroOrOne
- Format: Chr
- Access Types: Get
- Values: <User displayable name>
- Status: Optional

5.2.3 Node: /<X>/ProviderID

This parameter provides an identifier for the provider of this service.

- Occurrence: ZeroOrOne
- Format: Chr
- Access Type: Get
- Values: N/A
- Status: Optional

5.2.4 Node: /<X>/ToConRef

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 give application under this interior node.

- Occurrence: ZeroOrOne
- Format: Node
- Access Type: Get
- Values: N/A
- Status: Optional

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

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

- Occurrence: OneOrMore

- Format: Node
- Access Type: Get
- Value: N/A
- Status: Optional

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

The ConRef leaf 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.

- Occurrence: One
- Format: Chr
- Access Type: Get
- Value: Relative URI
- Status: Optional

5.2.7 Node: /<X>/URI

This parameter defines the root of all XDM resources (this is the Aggregation Proxy address). This is useful when accessing via XCAP.

- Occurrence: One
- Format: Chr
- Access Type: Get
- Value: <a HTTP URI>
- Status: Mandatory

5.2.8 Node: /<X>/ AAUTHNAME

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

- Occurrence: ZeroOrOne
- Format: Chr
- Access Type: Get
- Value: N/A
- Status: Optional

5.2.9 Node: /<X>/AAUTHSECRET

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

- Occurrence: ZeroOrOne
- Format: Chr

- Access Type: No Get
- Value: <User specific value>
- Status: Optional

5.2.10 Node: /<X>/AAUTHTYPE

This parameter defines the authentication type for XDM Client authentication.

- Occurrence: ZeroOrOne
- Format: Chr
- Access Type: Get
- Value: <a token>, whose values can be:
    - GAA: the authentication method will be GAA
    - Digest: the authentication method will be HTTP Digest
- Status: Optional

5.2.11 Node: /<X>/Ext

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.

- Occurrence: ZeroOrOne
- Format: Node
- Access Type: Get
- Value: N/A
- Status: Optional

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

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].

- Occurrence: ZeroOrOne
- Format: Chr
- Access Type: Get
- Value: <A SIP URI>
- Status: Optional

Appendix A. Change History (Informative)

A.1 Approved Version 2.0 History

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

A.2 Draft/Candidate Version 2.0 History

Document Identifier	Date	Sections	Description
Draft versions OMA-TS-XDM_MO-V2_0	24 Oct 2006	First draft	OMA-PAG-2006-0574-INP_XDM2_MO_Specification
	05 Jun 2007	2.1, 2.2, 5, 5.2.12	Incorporated CR: OMA-PAG-2007-0337R02
	14 Jun 2007	2.1, 5	Incorporated CR: OMA-PAG-2007-0359R01
Candidate Version OMA-TS-XDM_MO-V2_0	24 Jul 2007	n/a	Status changed to Candidate by TP (2007-07-11 to 2007-07-24) TP ref # OMA-TP-2007-0284- INP_XDM_V2_0_ERP_for_Candidate_approval
Draft version OMA-TS-XDM_MO-V2_0	10 Apr 2008	all	Status changed to draft Incorporated CR: OMA-PAG-2008-0166R01
Candidate Version OMA-TS-XDM_MO-V2_0	16 Sep 2008	n/a	Status changed to Candidate by TP (2008-09-03 to 2008-09-16) TP ref # OMA-TP-2008-0332R01- INP_XDM_V2_0_ERP_for_Candidate_Re_Approval