



OMA Management Object for Presence SIMPLE

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1. Scope

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

2. References

2.1 Normative References

OMA

[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-DM_StdObj-V1_2,
URL: <http://www.openmobilealliance.org/>

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

IETF

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

2.2 Informative References

[PRS_RD] “Presence SIMPLE Requirements”, Version 2.0, Open Mobile Alliance™, OMA-RD-Presence_SIMPLE-V2_0,
URL: <http://www.openmobilealliance.org/>

[XDM_Core] “XML Document Management Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM_Core-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 [DM_TND] for definitions of terms related to the management tree.

3.3 Abbreviations

DM	Device Management
GAA	Generic Authentication Architecture
HTTP	Hyper Text Transfer Protocol
IETF	Internet Engineering Task Force
MIME	Multipurpose Internet Mail Extensions
MO	Management Object
OMA	Open Mobile Alliance
PS	Presence Server
SIMPLE	SIP for Messaging and Presence Leveraging Extensions
SIP	Session Initiation Protocol
UE	User Equipment
URI	Uniform Resource Identifier
XML	eXtensible Markup Language

4. Introduction

This document describes the management object syntax for OMA Presence SIMPLE that allows configuration deployment to OMA presence clients.

5. OMA Presence SIMPLE Management Object

This subclause defines the mobile device Management Object (MO) for OMA Presence SIMPLE. 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 (see [DM_ERELD]).

The OMA Presence SIMPLE Management Object consists of relevant parameters required by [PRS_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-pres:2.0

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

Management object name: OMA_PRESENCE

5.1 Management Object Tree

Figure 1 shows the interior nodes and leaf nodes for Presence SIMPLE continuous provisioning:

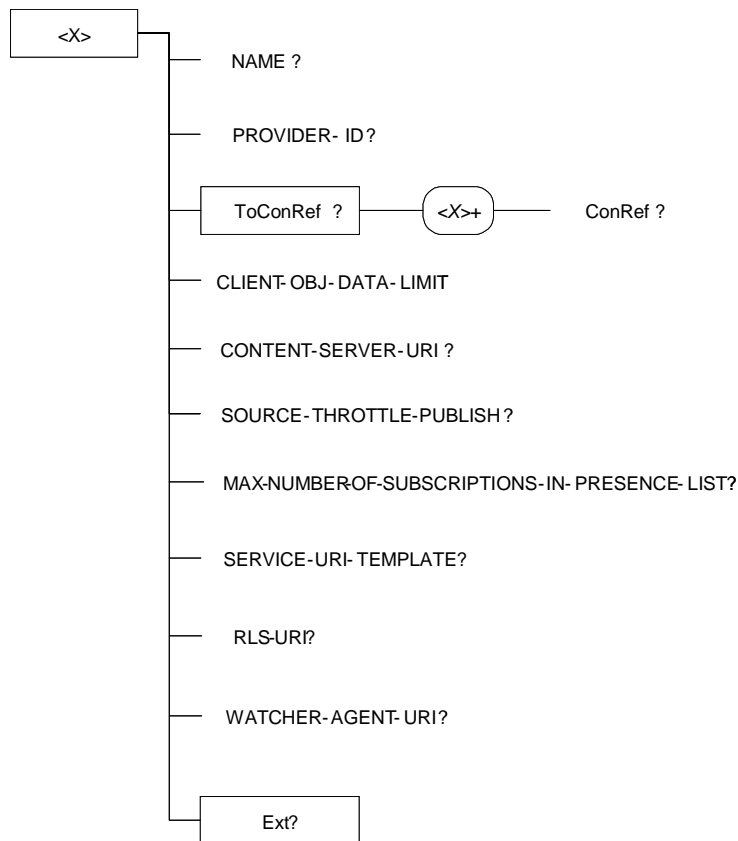


Figure 1: The OMA Presence SIMPLE Management Object tree

5.2 Management Object Parameters

This section describes the parameters for the OMA Presence SIMPLE 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 Presence SIMPLE.

5.2.2 Node: /<X>/NAME

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.

- Occurrence: One
- Format: Chr
- Access Types: Get
- Values: <User displayable name>
- Status: Mandatory

5.2.3 Node: /<X>/ProviderID

The ProviderID leaf node 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 given 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 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.

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

5.2.7 Node: /<X>/CLIENT-OBJ-DATA-LIMIT

This parameter defines the maximum size of the MIME object in SIP PUBLISH requests. When the PS does not support the MIME objects as direct content of SIP PUBLISH requests, this parameter is set to zero.

- Occurrence: One
- Format: Integer
- Access Type: Get
- Value: N/A
- Status: Mandatory

5.2.8 Node: /<X>/CONTENT-SERVER-URI

This parameter defines the HTTP URI of the Content Server to be used for content indirection.

- Occurrence: ZeroOrOne
- Format: Char
- Access Type: Get
- Value: <An HTTP URI>
- Status: Optional

5.2.9 Node: /<X>/SOURCE-THROTTLE-PUBLISH

This parameter defines the minimum time interval (in seconds) between two consecutive publications from a Presence Source.

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

5.2.10 Node: /<X>/MAX-NUMBER-OF-SUBSCRIPTIONS-IN-PRESENCE-LIST

This parameter limits the number of back-end subscriptions allowed for a Presence List.

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

5.2.11 Node: /<X>/SERVICE-URI-TEMPLATE

The Service URI Template specifies the syntax of the service URI. The Service 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

5.2.12 Node: /<X>/RLS-URI

This parameter defines the SIP URI of the RLS to be used by the Watcher when subscribing to a Request-contained Presence List.

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

5.2.13 Node: /<X>/Ext

The Ext is an interior node where the vendor-specific information about the OMA Presence SIMPLE 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 subtree.

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

Appendix A. Change History (Informative)

A.1 Approved Version 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 Version OMA-TS-Presence_SIMPLE_MO-V2_0	5 March 2008	n/a	Created based on OMA-PAG-2008-0071R01 Incorporated CR: OMA-PAG-2008-124R01
	12 Mar 2008		Editorial cleanup based on OMA-PAG-2008-0155
	28 May 2008		Incorporated CR: OMA-PAG-2008-0349
	26 Aug 2008	All	Incorporated CR: OMA-PAG-2008-0543
	27 Oct 2008	5.2.2, 5.2.13 (del)	Incorporated CRs: OMA-PAG-2008-0669R01 OMA-PAG-2008-0670
Candidate Version OMA-TS-Presence_SIMPLE_MO-V2_0	23 Dec 2008	N/A	Status changed to Candidate by TP TP ref # OMA-TP-2008-0490- INP_Presence_SIMPLE_V2_0_ERP_for_Candidate_Approval