OMA Management Object for Presence SIMPLE

Approved Version 2.0 – 10 Jul 2012

Open Mobile Alliance

OMA-TS-Presence_SIMPLE_MO-V2_0-20120710-A

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Contents

Figures

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

[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/
[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
IETF	
OMA	

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.

4.1 Version 1.1

4.1.1 Version 1.1.1

The OMA PRS 1.1.1 enabler defines the following parameters for the OMA Presence SIMPLE Management Object: CLIENT-OBJ-DATA-LIMIT, CONTENT-SERVER-URI, SOURCE-THROTTLE-PUBLISH, MAX-NUMBER-OF-SUBSCRIPTIONS-IN-PRESENCE-LIST and SERVICE-URI-TEMPLATE.

4.2 Version 2.0

The OMA PRS 2.0 enabler extends the list of parameters for the OMA Presence SIMPLE Management Object with the following: RLS-URI.

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

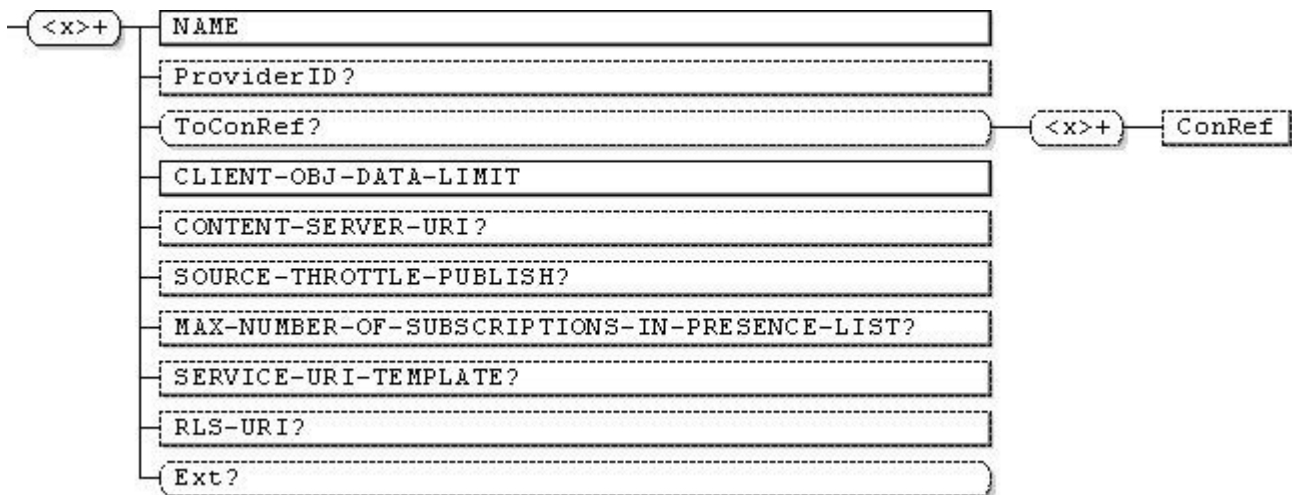Figure 1 shows the interior nodes and leaf nodes for Presence SIMPLE continuous provisioning:

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>

<x>

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

This interior node groups together the parameters of a Presence SIMPLE 2.0 Management Object. The ancestor elements of this node define the position in the Management   ree of this Management Object. But the structure of the DM tree and hence positions in the tree of Management Objects are out of scope of this specification. The interior node is mandatory if the UE supports OMA Presence SIMPLE.

The type of this node MUST be PRS Management Object ID "urn:oma:mo:oma-prs:2.0".

.

5.2.2 Node: /<x>/NAME

NAME

Status	Tree Occurrence	Format	Min. Access Types
Required	One	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>/CLIENT-OBJ-DATA-LIMIT

CLIENT-OBJ-DATA-LIMIT

Status	Tree Occurrence	Format	Min. Access Types
Required	One	int	Get

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

.

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

CONTENT-SERVER-URI

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

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

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

SOURCE-THROTTLE-PUBLISH

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

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

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

MAX-NUMBER-OF-SUBSCRIPTIONS-IN-PRESENCE-LIST

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

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

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

SERVICE-URI-TEMPLATE

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

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]. Possible value is a SIP URI.

5.2.12   Node: /<x>/RLS-URI

RLS-URI

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

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

5.2.13   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 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 sub-tree.

Appendix A.   Change History   (Informative)

A.1   Approved Version 2.0 History

Reference	Date	Description
OMA-TS-Presence_SIMPLE_MO-V2_0-20120710-A	10 Jul 2012	Status changed to Approved by TP: OMA-TP-2012-0268-INP_Presence_SIMPLE_V2_0_ERP_for_Final_Approval