OMA Management Object for SUPL
Candidate Version 2.0 – 27 Jun 2008

Open Mobile Alliance
OMA-TS-SUPL_MO-V2_0-20080627-C

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Figures

1. Scope

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

2. References

2.1 Normative References

[DMTND]	"SyncML Device Management Tree and Description, Version 1.1.2". Open Mobile Alliance™. OMA-SyncML-DMTND-V1_1_2, URL: http://www.openmobilealliance.org
[RFC2119]	Key words for use in RFCs to Indicate Requirement Levels, URL: http://www.ietf.org/rfc/rfc2119.txt
[RFC2396]	Uniform Resource Identifiers (URI): Generic Syntax, URL: http://www.ietf.org/rfc/rfc2396.txt

2.2 Informative References

[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1_1, URL:http://www.openmobilealliance.org/
[OMA ULP]	OMA-TS-SUPL-V2_0,, Open Mobile Alliance™, URL: http://www.openmobilealliance.org/
[OMNAPROC]	"Open Mobile Naming Authority Process", Version 1.0, Open Mobile Alliance™, OMA-ORG-OMNA_Process-V1_0, URL:http://www.openmobilealliance.org/
[SUPL RD]	OMA-RD-SUPL-V2_0. Open Mobile Alliance™. URL: http://www.openmobilealliance.org/
[SUPLAD]	OMA-AD-SUPL-AD-V2_0, Open Mobile Alliance™, URL: http//www.openmobilealliance.org/
[WAP]	"Wireless Application Protocol", Version 2.0, Open Mobile Alliance™, URL: http://www.openmobilealliance.org/tech/affiliates/wap/technical_wap2_0-20020813.zip
[SUPL 10 MO]	OMA-TS-SUPL_MO-V1_0-20070615-A, Open Mobile Alliance™. 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 [DMTND] document for definitions of terms related to the management tree.

3.3 Abbreviations

DM	Device Management
FQDN	Fully Qualified Domain Name
H-SLP	HomeSUPL Location Platform
MO	Management Object
OMA	Open Mobile Alliance
SET	SUPL Enabled Terminal
SLC	SUPL Location Center
SLP	SUPL Location Platform
SUPL	Secure User Plane Location
TCP	Transmission Control Protocol
ULP	UserPlane Location Protocol
URI	Uniform Resource Identifier
WAP	Wireless Application Protocol

4. Introduction

This document describes the OMA SUPL management object syntax that allows configuration deployment to OMA SUPL 2.0 clients.

5. OMA SUPL Management Object

OMA SUPL management object (MO) is an object, which is used to manage OMA SUPL settings. Management object enables to manage OMA SUPL related settings on behalf of the end user. E.g. it SHOULD be possible to set a new Home SUPL Location Platform (H-SLP) server without notifying the end user. OMA SUPL management object (MO) is defined using the OMA DM Device Description Framework as described in [DMTND].

The Management Object Identifier is: urn:oma:mo:oma-supl:1.1

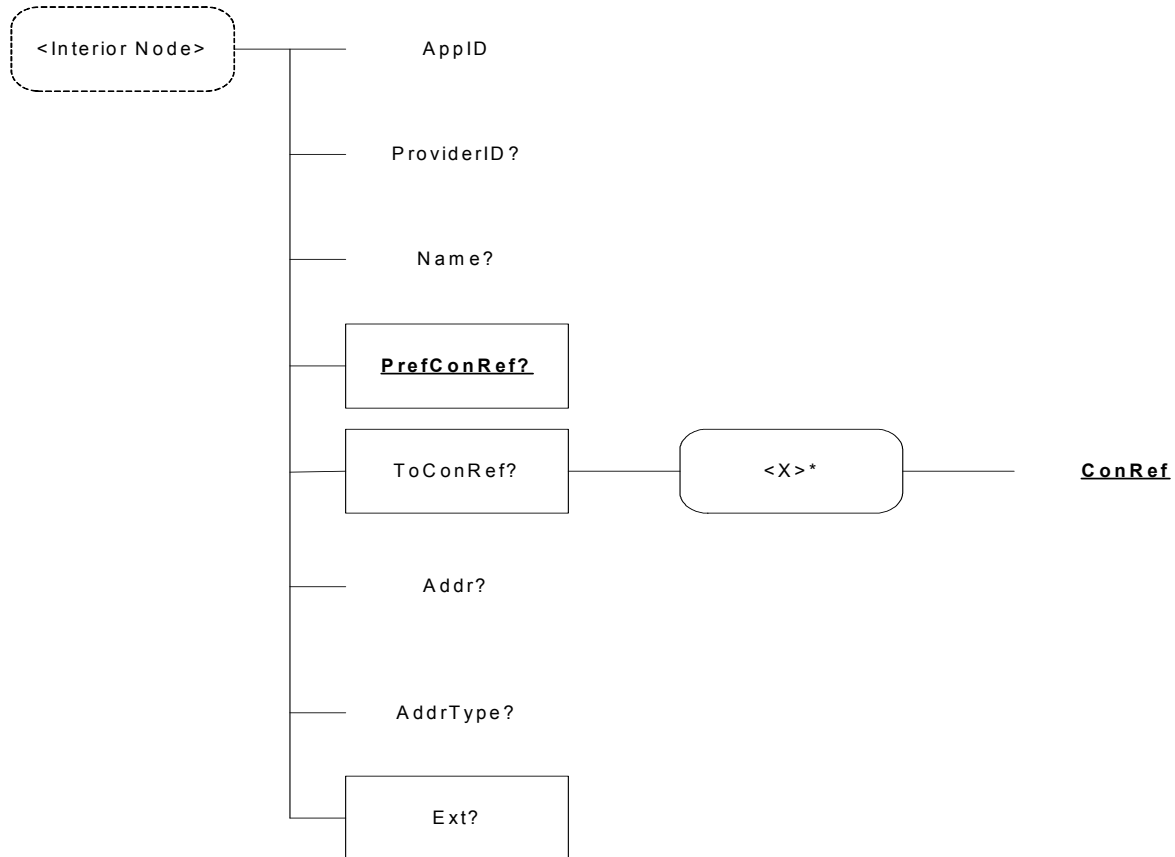The following diagram describes the same structure visually.

Figure 1: The OMA SUPL Management Object tree

5.1   Management Object Parameters

This section describes the parameters for OMA SUPL Management Object.

5.1.1   Node: …/<X>

This interior node acts as a placeholder for one or more accounts or for the SUPL Enabled Terminal (SET) node.

- •   Status: Required

- •   Occurs: OneOrMore / One

- •   Format: Node

- •   Access Types: Get

- •   Values: N/A

5.1.2   Node: …/<X>/AppID

The AppID identifies the type of the application service available at the described Home SUPL Location Platform (H-SLP) server.

- •   Status: Required

- •   Occurrence: One

- •   Value: Leaf values are in textual format as defined in the WAP Provisioning Content document. (The value is always ap0004 for OMA SUPL.)

- •   Access Type: Get

- •   Format: Chr

Example: ap0004

5.1.3   Node: …/<X>/ProviderID

The ProviderID leaf provides an identifier for the H-SLP.

- •   Status: Optional

- •   Occurrence: ZeroOrOne

- •   Value:

- •   Access Type: Get, Replace

- •   Format: Chr

Example: 123.56.78.90

5.1.4   Node: …/<X>/Name

The Name leaf indicates a logical, user readable identity (property) of the H-SLP.

- •   Status: Optional

- •   Occurrence: ZeroOrOne

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- Value:

- Access Type: Get, Replace

- Format: Chr

Example: XYZop H-SLP

5.1.5   Node: …/<X>/PrefConRef

The PrefConRef leaf indicates the preferred linkage to connectivity parameters (proxy or network access point).

- Status: Optional

- Occurrence: ZeroOrOne

- Value: Relative URI

- Access Type: Get, Replace

- Format: Chr

Example: `./AP/ThisOperator/NAPDef/1/ThisItem`

5.1.6   Node: …/<X>/ToConRef

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

- Status: Optional

- Occurrence: ZeroOrOne

- Value:

- Access Type: Get

- Format: Node

5.1.7   Node: …/<X>/ToConRef/<X>

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

- Status: Required

- Occurrence: ZeroOrMore

- Value:

- Access Type: Get

- Format: Node

5.1.8   Node:…/<X>/ToConRef/<X>/ConRef

The ConRef leaf indicates the linkage to connectivity parameters.

- Status: Required

- Occurrence: One

- Value: Relative URI

- Access Type: Get, Replace

- Format: Chr

Example: `./AP/ThatOperator/Px/1/ThatItem`

5.1.9 Node: …/<X>/Addr

The Addr node can hold addresses of the H-SLP, for example, FQDN. The type of address in the field can be determined on the AddrType node. If the parameter AddrType is not defined or if no value is given, then the parameter Addr can contain the same type of values as the PrefAddr node defined above.

- Status: Required

- Occurrence: ZeroOrOne

- Value: SLP address or SUPL Location Center (SLC) for non-proxy mode)

- Access Type: Get, Replace

- Format: Chr

Example: www.hslp.com

5.1.10 Node: …/<X>/ AddrType

The AddrType leaf indicates the format and interpretation of the Addr parameter. When the value is omitted, the address type is a fully qualified Internet domain name (i.e. hostname as defined in section 3.2.2 of [RFC2396]).

- Status: Optional

- Occurrence: ZeroOrOne

- Value: FQDN

- Access Type: Get, Replace

- Format: Chr

Example: FQDN

5.1.11 Node: …/<X>/Ext

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

- Status: Optional

- Occurrence: ZeroOrOne

- Value:

- Access Type: Get

- Format: Node

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-TS-SUPL_MO-V1_0	15 Jun 2007	No prior version
OMA-TS-SUPL_MO-V2_0		
Candidate version: OMA-RD-SUPL -V2_0	27 Jun 2008	Status changed to Candidate by TP TP ref#: OMA-TP-2008-0251-INP_SUPL_V2.0_ERP_for_Candidate_Approval