



# **OMA Management Object for SUPL**

Candidate Version 1.0 – 19 Jul 2005

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**Open Mobile Alliance**  
OMA-TS-SUPL-MO-V1\_0-20050719-C

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# Contents

- 1. SCOPE .....4
- 2. REFERENCES .....5
  - 2.1 NORMATIVE REFERENCES.....5
  - 2.2 INFORMATIVE REFERENCES.....5
- 3. TERMINOLOGY AND CONVENTIONS .....6
  - 3.1 CONVENTIONS.....6
  - 3.2 DEFINITIONS.....6
  - 3.3 ABBREVIATIONS.....6
- 4. INTRODUCTION .....7
- 5. OMA SUPL MANAGEMENT OBJECT .....8
  - 5.1 MANAGEMENT OBJECT PARAMETERS.....9
    - 5.1.1 Node: .../<X> .....9
    - 5.1.2 Node: .../<X>/AppID .....9
    - 5.1.3 Node: .../<X>/ProviderID .....9
    - 5.1.4 Node: .../<X>/Name.....9
    - 5.1.5 Node: .../<X>/PrefConRef .....10
    - 5.1.6 Node: .../<X>/ToConRef .....10
    - 5.1.7 Node: .../<X>/ToConRef/<X>.....10
    - 5.1.8 Node: .../<X>/ToConRef/<X>/ConRef .....10
    - 5.1.9 Node: .../<X>/Addr.....11
    - 5.1.10 Node: .../<X>/ AddrType.....11
    - 5.1.11 Node: .../<X>/Ext.....11
- APPENDIX A. CHANGE HISTORY (INFORMATIVE).....13
  - A.1 APPROVED VERSION HISTORY .....13
  - A.2 DRAFT/CANDIDATE VERSION <CURRENT VERSION> HISTORY.....13

# Figures

- Figure 1: The OMA SUPL Management Object tree.....8

# 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

- [DMPRO] "OMA Device Management Protocol, Version 1.2". Open Mobile Alliance. OMA-TS-DM-Protocol-V1\_2\_0, <http://www.openmobilealliance.org>
- [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>
- [RFC2396] Uniform Resource Identifiers (URI): Generic Syntax  
URL: <http://www.ietf.org/rfc/rfc2396.txt>
- [RFC2119] Key words for use in RFCs to Indicate Requirement Levels  
URL: <http://www.ietf.org/rfc/rfc2119.txt>

### 2.2 Informative References

- [OMNAPROC] "Open Mobile Naming Authority Process", Version 1.0, Open Mobile Alliance™, OMA-ORG-OMNA\_Process-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [IOPPROC] "OMA Interoperability Policy and Process", Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1\_1, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [SUPL RD] OMA-RD-SUPL-V1\_0\_0. Open Mobile Alliance™.  
URL: <http://www.openmobilealliance.org/>
- [SUPLAD] OMA-AD-SUPL-AD-V1\_0\_0, Open Mobile Alliance™,  
URL:<http://www.openmobilealliance.org/>
- [OMA ULP] OMA-TS-SUPL-V1\_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](http://www.openmobilealliance.org/tech/affiliates/wap/technical_wap2_0-20020813.zip)

## 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

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

## 4. Introduction

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

## 5. OMA SUPL Management Object

OMA SUPL management object (MO) is an object, which is used to manage OMA SUPL settings. Refer to OMA Device Management package, [OMAPRO] for complete details. 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.

Management object name: org.openmobilealliance/1.0/SUPL

The following diagram describes the same structure visually.

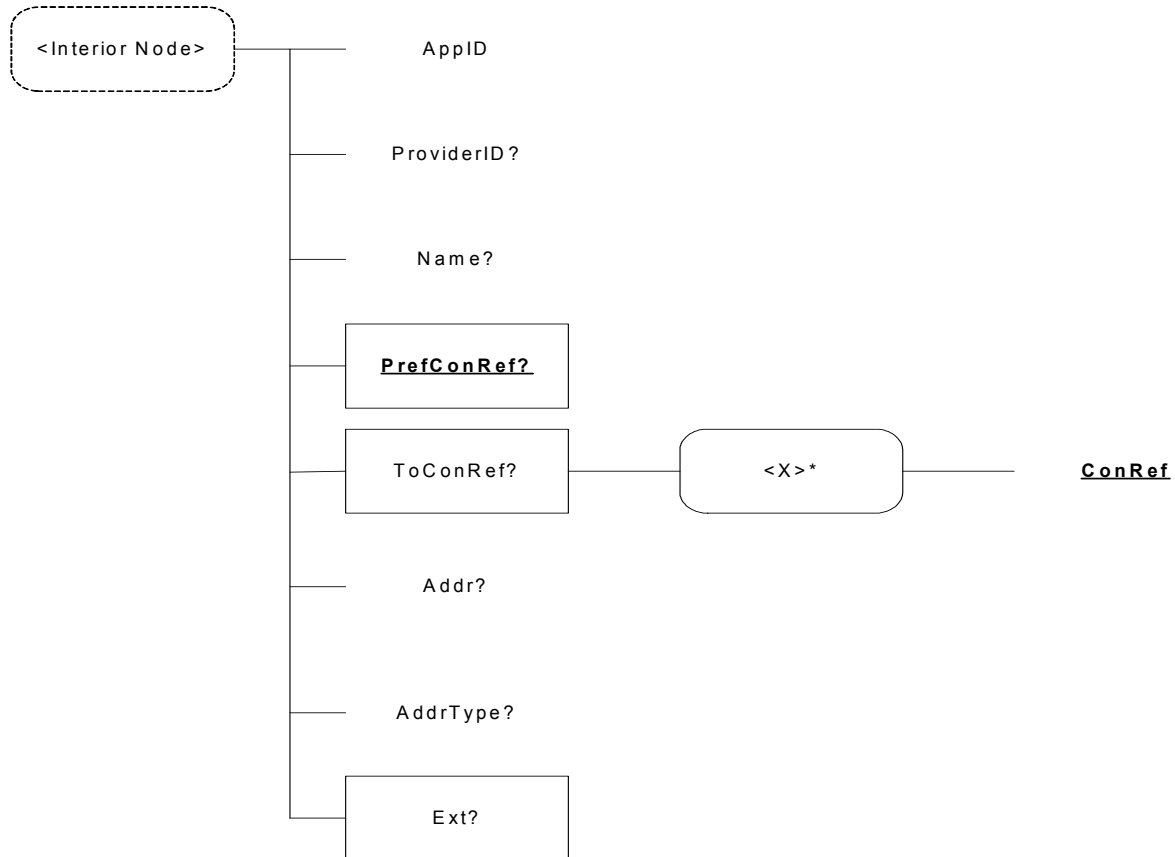


Figure 1: The OMA SUPL Management Object tree



## 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 XX for OMA SUPL.)
- Access Type: Get
- Format: Chr

Example: SUPL

Note: at the time of writing, the 'value' has not been assigned by OMNA.

### 5.1.3 Node: .../<X>/ProviderID

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

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

Example: `www.hspl.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
- Interpretation: SLP address (SUPL Location Center (SLC) or SUPL Position Center (SPC) address for non-proxy mode)
- Access Type: Get
- Format: Chr

Example: `www.hspl.com`

### 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
n/a	n/a	No prior version

### A.2 Draft/Candidate Version <current version> History

Document Identifier	Date	Sections	Description
Draft versions OMA-SUPL-xx-MO-V0_20050413-D	05 Apr 2005	All	Initial draft
OMA-TS-SUPL-V1_0 OMA-TS-SUPL-V1_0	22 Jun 2005	All	Accepted Changes based on OMA-LOC-2005-0215r02-Draft-OMA-SUPL-Management-Object-Version-0.1.doc
	28 Jun 2005	All	DM informal review and comments applied.
Candidate version OMA-TS-SUPL-MO-V1_0	19 Jul 2005	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2005-0220-SUPL-V1_0-for-Candidate-Approval