OMA Management Object for SUPL
Approved Version 1.0 – 15 Jun 2007

Open Mobile Alliance
OMA-TS-SUPL_MO-V1_0-20070615-A
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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


2.2 Informative References


[OMA ULP] OMA-TS-SUPL-V1_0,, Open Mobile Alliance™, URL: 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/

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM</td>
<td>Device Management</td>
</tr>
<tr>
<td>FQDN</td>
<td>Fully Qualified Domain Name</td>
</tr>
<tr>
<td>H-SLP</td>
<td>HomeSUPL Location Platform</td>
</tr>
<tr>
<td>MO</td>
<td>Management Object</td>
</tr>
<tr>
<td>OMA</td>
<td>Open Mobile Alliance</td>
</tr>
<tr>
<td>SET</td>
<td>SUPL Enabled Terminal</td>
</tr>
<tr>
<td>SLC</td>
<td>SUPL Location Center</td>
</tr>
<tr>
<td>SLP</td>
<td>SUPL Location Platform</td>
</tr>
<tr>
<td>SUPL</td>
<td>Secure User Plane Location</td>
</tr>
<tr>
<td>TCP</td>
<td>Transmission Control Protocol</td>
</tr>
<tr>
<td>ULP</td>
<td>UserPlane Location Protocol</td>
</tr>
<tr>
<td>URI</td>
<td>Uniform Resource Identifier</td>
</tr>
<tr>
<td>WAP</td>
<td>Wireless Application Protocol</td>
</tr>
</tbody>
</table>
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. 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:1.0

The following diagram describes the same structure visually.

![OMA SUPL Management Object tree](image)
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
- 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
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
- 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
- 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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>OMA-TS-SUPL_MO-V1_0</td>
<td>15 Jun 2007</td>
<td>No prior version</td>
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