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*Technical Specification*

**Universal Mobile Telecommunications System (UMTS);  
LTE;  
3GPP IMS Management Object (MO);  
Stage 3  
(3GPP TS 24.167 version 6.8.0 Release 6)**



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# 1 Scope

This document defines a mobile device 3GPP IMS Management Object. The management object is compatible with OMA Device Management protocol specifications, version 1.1.2 and upwards, and is defined using the OMA DM Device Description Framework as described in the Enabler Release Definition OMA-ERELD-SyncML\_DM-V1\_1\_2-20031209-A [9].

The 3GPP IMS Management Object consists of relevant parameters that can be managed for the IM CN Subsystem. This includes the basic framework defined in 3GPP TS 23.228 [4] and 3GPP TS 24.229 [5], and early IMS as defined in 3GPP TS 23.221 [3].

The IMS Management Object defines a repository of data into the ME including parameters that are provisioned from the ISIM application (i.e. 3GPP TS 31.103 [11]) or, after derivation, from the USIM application (i.e. 3GPP TS 31.102 [10]).

If the procedures for OMA Device Management is not supported by an implementation, the OMA Client Provisioning can be used as a fallback. Annex B of this document defines the 3GPP IMS Client Provisioning Application Characteristics as described in the Enabler Release Definition OMA-WAP-ProvCont-V1\_1-20050428-C [13].

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the 3GPP IMS Management Object document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.003: "Numbering, addressing and identification".
- [3] 3GPP TS 23.221: "Architectural requirements".
- [4] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [5] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [6] Void.
- [7] Void.
- [8] RFC 1123: "Requirements for Internet Hosts -- Application and Support".
- [9] OMA-ERELD-SyncML\_DM-V1\_1\_2-20031209-A: "Enabler Release Definition for OMA Device Management (based on SyncML DM), Version 1.1.2".
- [10] 3GPP TS 31.102: "Characteristics of the USIM application".
- [11] 3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module; (ISIM) Application".
- [12] OMA-ERELD-DM-V1\_2-20070209-A : "Enabler Release Definition for OMA Device Management, Version 1.2".

- [13] OMA-WAP-ProvCont-V1\_1-20050428-C: "Enabler Release Definition for Client Provisioning, Version 1.1".

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] apply.

### 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AC	Application Characteristics
CN	Core Network
CP	Client Provisioning
CSCF	Call Session Control Function
DDF	Device Description Framework
DM	Device Management
IMS	IP Multimedia core network Subsystem
IP	Internet Protocol
ISIM	IM Services Identity Module
MO	Management Object
OMA	Open Mobile Alliance
P-CSCF	Proxy – CSCF
PDP	Packet Data Protocol
SIP	Session Initiation Protocol
UE	User Equipment
USIM	Universal Subscriber Identity Module

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## 4 3GPP IMS Management Object

The 3GPP IMS Management Object is used to manage settings of the UE for IM CN Subsystem protocols. The Management Object covers generic parameters for the IM CN subsystem. The Management Object enables the management of the settings on behalf of the end user.

The Management Object Identifier is: org.3gpp/1.0/SIPCore.

Protocol compatibility: This MO is compatible with OMA DM 1.1.2.

The following nodes and leaf objects are possible under the 3GPP\_IMS node:

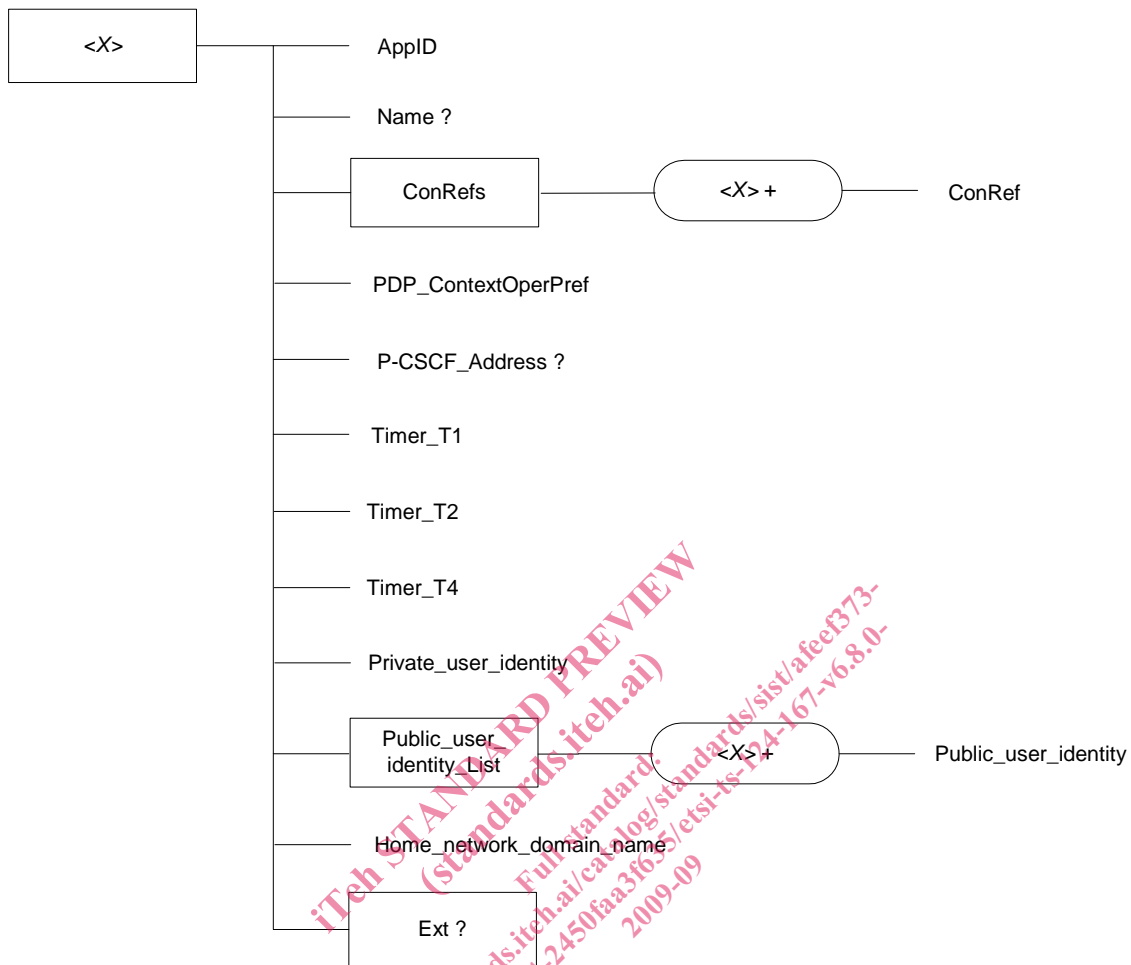


Figure 1: The 3GPP IMS Management Object

## 5 Management Object parameters

### 5.1 General

This clause describes the parameters for the 3GPP IMS Management Object.

### 5.2 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

The interior node is mandatory if the UE supports the IM CN Subsystem. Support for a UE is defined by the user agent role as defined in 3GPP TS 24.229 [5].

NOTE: One node is normally used. More nodes are only used in case the terminal supports multiple UICCs.

### 5.3 /<X>/AppID

The AppID identifies the type of the application service available at the described application service access point. The value is globally unique.

- Occurrence: One
- Format: chr
- Access Types: Get
- Value: <ap2001>

NOTE: The value of the 3GPP\_IMS/AppID is determined by OMA.

### 5.4 /<X>/Name

The Name leaf is a name for the 3GPP\_IMS settings.

- Occurrence: ZeroOrOne
- Format: chr
- Access Types: Get
- Values: <User displayable name>

### 5.5 /<X>/ConRefs/

The ConRefs interior node is used to allow a reference to a list of network access point objects.

- Occurrence: One
- Format: node
- Access Types: Get
- Values: N/A

### 5.6 /<X>/ConRefs/<X>

This run-time node acts as a placeholder for one or more network access point objects.

- Occurrence: OneOrMore
- Format: node
- Access Types: Get
- Values: N/A

### 5.7 /<X>/ConRefs/<X>/ConRef

The ConRef leaf represents one or more network access point objects.

- Occurrence: One
- Format: chr

- Access Types: Get, Replace
- Values: <A network access point object>

## 5.8 /<X>/PDP\_ContextOperPref

The PDP\_ContextOperPref leaf indicates an operator's preference to have a dedicated PDP context for SIP signalling.

- Occurrence: One
- Format: bool
- Access Types: Get, Replace
- Values: 0, 1
  - 0 – Indicates that the operator has no preference for a dedicated PDP context for SIP signalling.
  - 1 – Indicates that the operator has preference for a dedicated PDP context for SIP signalling.

The PDP\_ContextOperPref leaf indicates a preference only. 3GPP TS 24.229 [5] describes the normative options and the procedures for establishment of a dedicated PDP context for SIP signalling.

## 5.9 /<X>/P-CSCF\_Address

The P-CSCF\_Address leaf defines an FQDN or an IPv4 address to an IPv4 P-CSCF.

- Occurrence: ZeroOrOne
- Format: chr
- Access Types: Get, Replace
- Values: <A fully qualified domain name> or IPv4 address>

The P-CSCF\_Address leaf shall only be used in early IMS implementations as described in 3GPP TS 23.221 [3].

The FQDN, or host name as defined by RFC 1123 [8], is represented as character-labels with dots as delimiters.

EXAMPLE: pscf.operator.com

## 5.10 /<X>/Timer\_T1

The Timer\_T1 leaf defines the SIP timer T1 – the RTT estimate.

- Occurrence: One
- Format: int
- Access Types: Get, Replace
- Values: <The round trip time>

The Timer\_T1 leaf is an estimate for the round trip time in the system (UE – P-CSCF). The timer value shall be given in milliseconds. The default value is recommended in 3GPP TS 24.229 [5]. The Timer\_T1 is a 32 bits unsigned integer.

EXAMPLE: 2000 (milliseconds)

## 5.11 /<X>/Timer\_T2

The Timer\_T2 leaf defines the SIP timer T2 – the maximum retransmit interval for non-INVITE requests and INVITE responses.