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TECHNICAL SPECIFICATION

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Stage 3
(3GPP TS 24.167 version 19.1.0 Release 19)**



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Foreword

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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 1.2 and upwards, and is defined using the OMA DM Device Description Framework as described in the Enabler Release Definition OMA-ERELED_DM-V1_2 [12].

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]. This also includes relevant parameters that can be managed for the application of SMS over IP networks defined in 3GPP TS 24.341 [5a].

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]).

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".
- [5a] 3GPP TS 24.341: "Support of SMS over IP networks; Stage 3".
- [6] Void.
- [7] Void.
- [8] Void.
- [9] Void.
- [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-ERELED-DM-V1_2-20070209-A: "Enabler Release Definition for OMA Device Management, Version 1.2".
- [13] Void.
- [14] Void.

- [15] 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".
- [16] 3GPP TS 24.292: "IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS); Stage 3".
- [17] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".
- [18] RFC 5626: "Managing Client-Initiated Connections in the Session Initiation Protocol (SIP)".
- [19] 3GPP TS 22.173: "IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1".
- [20] 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".
- [21] 3GPP TS 24.238: "Session Initiation Protocol (SIP) based user configuration; Stage 3".
- [22] 3GPP TS 29.292: "Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and MSC Server for IMS Centralized Services (ICS)".
- [23] RFC 3261: "SIP: Session Initiation Protocol".
- [24] RFC 4566: "SDP: Session Description Protocol".
- [25] 3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".
- [26] RFC 4028 (April 2005): "Session Timers in the Session Initiation Protocol (SIP)".
- [27] 3GPP TS 23.501: "System architecture for the 5G System (5GS)".
- [28] 3GPP TS 23.122: "Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode".

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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.

Default QoS Flow: The 5G QoS Flow associated with the default QoS rule.

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.122 [25] apply.

Equivalent Home PLMN (EHPLMN)

Home PLMN (HPLMN)

Visited PLMN (VPLMN)

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.501 [27] apply:

NG-RAN

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
E-UTRA	Evolved Universal Terrestrial Radio Access
FQDN	Fully Qualified Domain Name
ICSI	IMS Communication Service Identifier
IMS	IP Multimedia core network Subsystem
IP	Internet Protocol
ISIM	IM Services Identity Module
MO	Management Object
NR	New Radio
OMA	Open Mobile Alliance
P-CSCF	Proxy – CSCF
PDP	Packet Data Protocol
SIP	Session Initiation Protocol
SNPN	Stand-alone Non-Public Network
SS	Supplementary Services
UE	User Equipment
USIM	Universal Subscriber Identity Module

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: urn:oma:mo:ext-3gpp-ims:1.0.

Protocol compatibility: This MO is compatible with OMA DM 1.2.

The following nodes and leaf objects are possible under the 3GPP_IMS node:

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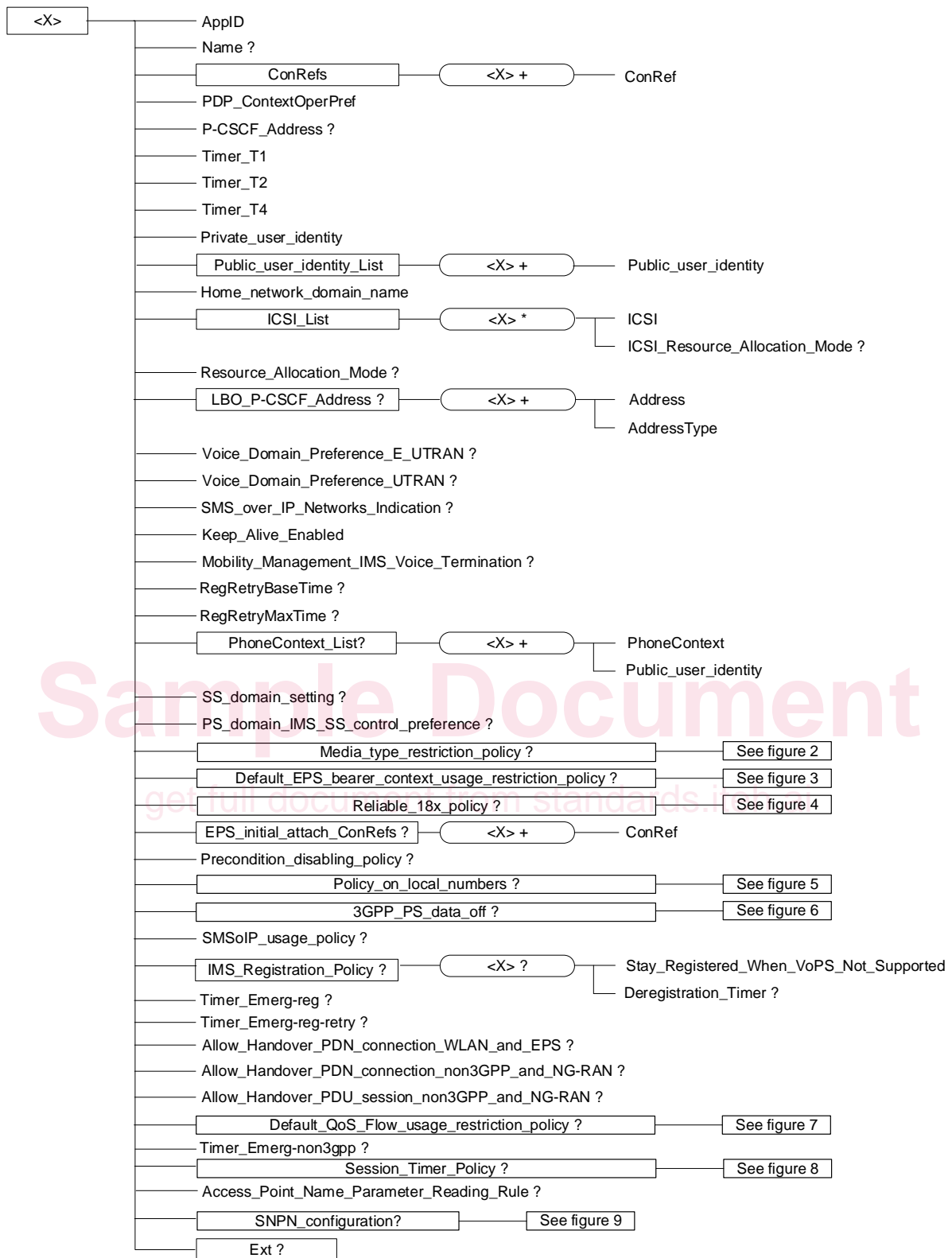


Figure 1: The 3GPP IMS Management Object

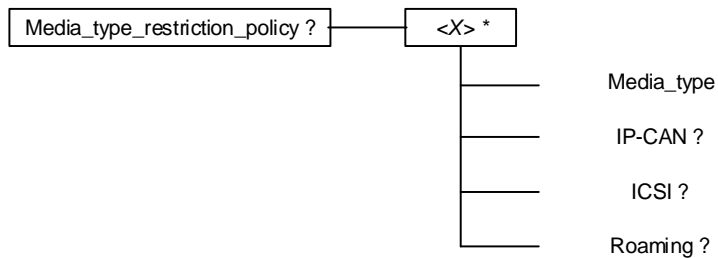


Figure 2: Media type restriction policy

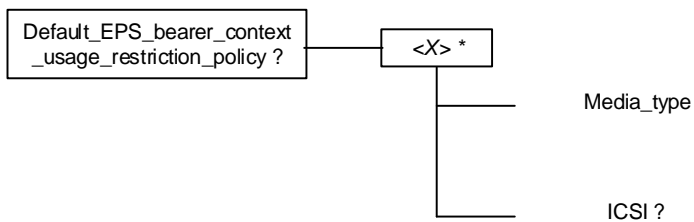


Figure 3: Default EPS bearer context usage restriction policy

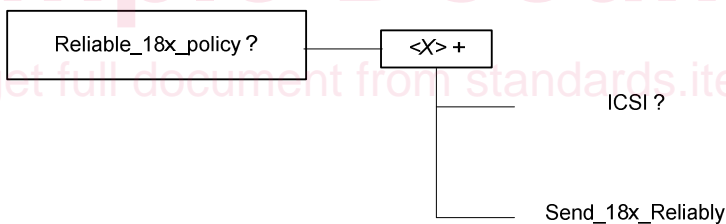


Figure 4: Reliable 18x policy

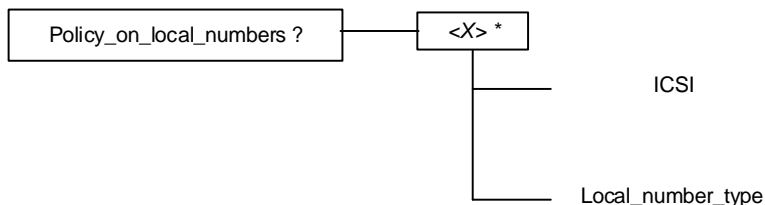


Figure 5: Policy on local numbers

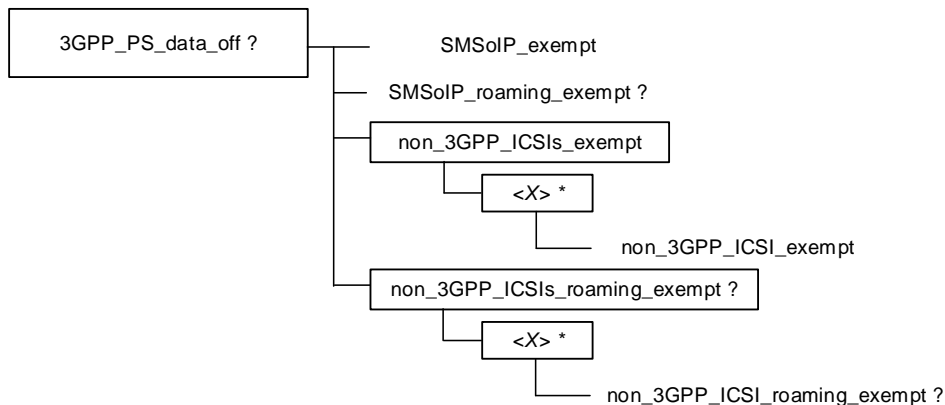


Figure 6: 3GPP PS data off

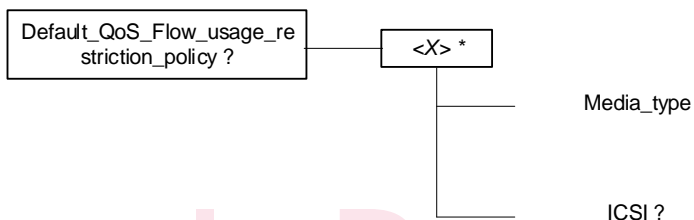


Figure 7: Default QoS Flow usage restriction policy

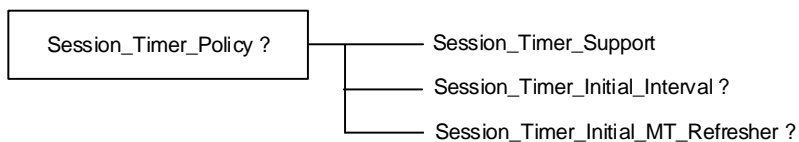


Figure 8: Session Timer policy

Sample Document

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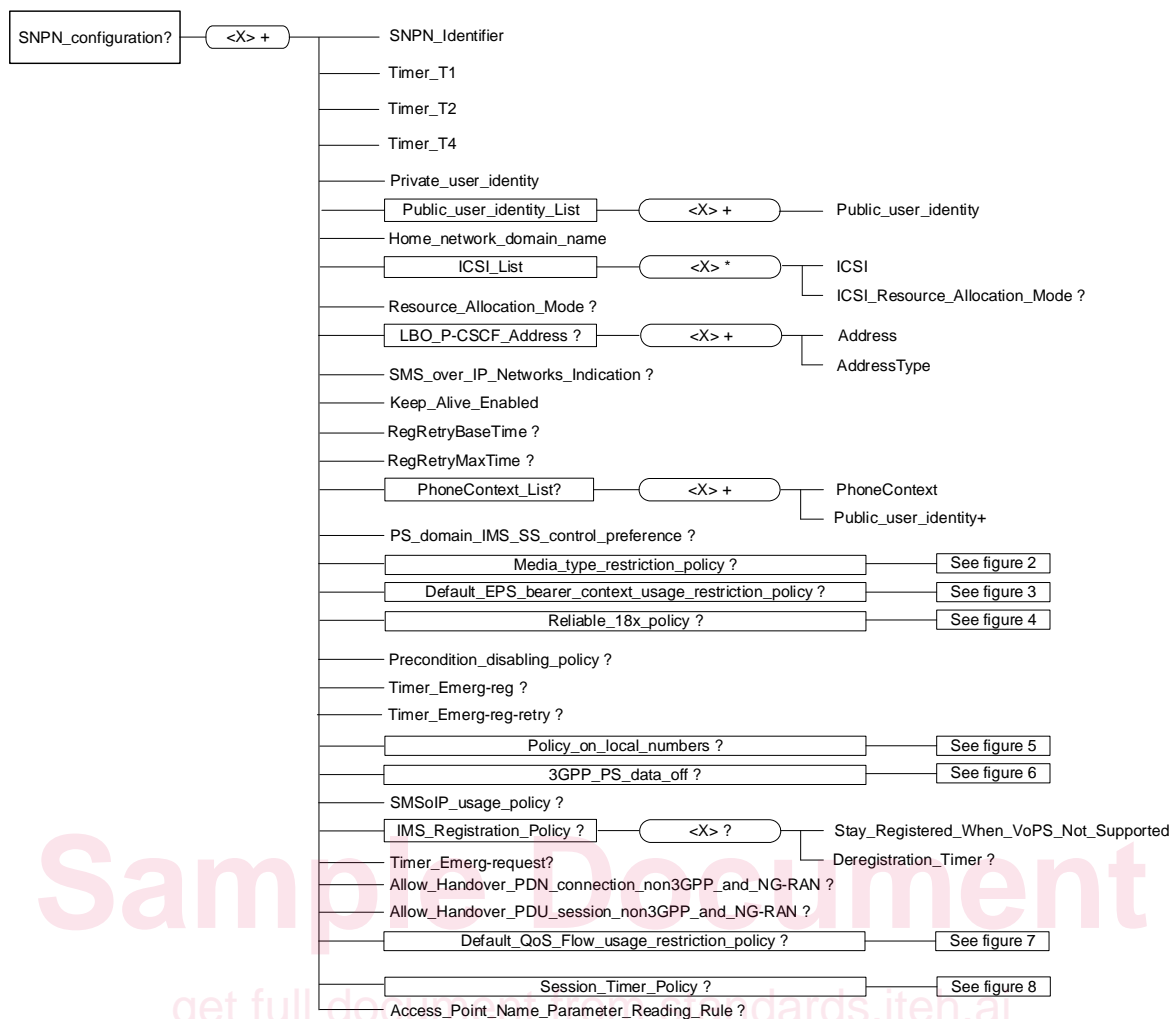


Figure 9: SNPN configuration

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.