

# ETSI TS 124 167 V14.4.0 (2017-07)



**Universal Mobile Telecommunications System (UMTS);  
LTE;  
3GPP IMS Management Object (MO);  
Stage 3  
(3GPP TS 24.167 version 14.4.0 Release 14)**



---

Reference

RTS/TSGC-0124167ve40

---

Keywords

LTE,UMTS

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

The present document can be downloaded from:

<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

---

**Copyright Notification**

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2017.

All rights reserved.

DECT™, PLUGTESTS™, UMTS™ and the ETSI logo are trademarks of ETSI registered for the benefit of its Members.

3GPP™ and LTE™ are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

oneM2M logo is protected for the benefit of its Members

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

---

## Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

---

## Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

# Contents

Intellectual Property Rights .....	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	5
1 Scope .....	6
2 References .....	6
3 Definitions and abbreviations.....	7
3.1 Definitions .....	7
3.2 Abbreviations .....	7
4 3GPP IMS Management Object.....	8
5 Management Object parameters.....	11
5.1 General .....	11
5.2 Node: /<X> .....	11
5.3 /<X>/AppID.....	11
5.4 /<X>/Name .....	12
5.5 /<X>/ConRefs/.....	12
5.6 /<X>/ConRefs/<X> .....	12
5.7 /<X>/ConRefs/<X>/ConRef.....	12
5.8 /<X>/PDP_ContextOperPref .....	12
5.9 /<X>/P-CSCF_Address.....	13
5.10 /<X>/Timer_T1.....	13
5.11 /<X>/Timer_T2.....	13
5.12 /<X>/Timer_T4.....	14
5.13 /<X>/Private_user_identity .....	14
5.14 /<X>/Public_user_identity_List/.....	14
5.15 /<X>/Public_user_identity_List/<X> .....	14
5.16 /<X>/Public_user_identity_List/<X>/Public_user_identity .....	15
5.17 /<X>/Home_network_domain_name.....	15
5.18 /<X>/Ext/ .....	15
5.19 /<X>/ICSI_List/ .....	15
5.20 /<X>/ICSI_List/<X> .....	16
5.21 /<X>/ICSI_List/<X>/ICSI.....	16
5.21A /<X>/ICSI_List/<X>/ICSI_Resource_Allocation_Mode.....	16
5.22 /<X>/LBO_P-CSCF_Address/ .....	16
5.23 /<X>/LBO_P-CSCF_Address/<X> .....	17
5.24 /<X>/LBO_P-CSCF_Address/<X>/Address.....	17
5.25 /<X>/LBO_P-CSCF_Address/<X>/AddressType .....	17
5.26 /<X>/Resource_Allocation_Mode .....	17
5.27 /<X>/Voice_Domain_Preference_E_UTRAN .....	18
5.28 /<X>/SMS_Over_IP_Networks_Indication.....	18
5.29 /<X>/Keep_Alive_Enabled.....	19
5.30 /<X>/Voice_Domain_Preference_UTRAN.....	19
5.31 /<X>/Mobility_Management_IMS_Voice_Termination.....	19
5.32 void.....	21
5.33 void.....	21
5.34 void.....	21
5.35 /<X>/RegRetryBaseTime .....	21
5.36 /<X>/RegRetryMaxTime .....	21
5.37 /<X>/PhoneContext_List/ .....	21
5.38 /<X>/PhoneContext_List/<X> .....	21
5.39 /<X>/PhoneContext_List/<X>/PhoneContext.....	22
5.40 /<X>/PhoneContext_List/<X>/Public_user_identity .....	22
5.41 /<X>/SS_domain_setting.....	22

5.42 /<X>/PS\_domain\_IMS\_SS\_control\_preference .....23

5.43 /<X>/Media\_type\_restriction\_policy.....23

5.44 /<X>/Media\_type\_restriction\_policy/<X>/.....24

5.45 /<X>/Media\_type\_restriction\_policy/<X>/Media\_type.....25

5.46 /<X>/Media\_type\_restriction\_policy/<X>/IP-CAN.....25

5.47 /<X>/Media\_type\_restriction\_policy/<X>/ICSI .....25

5.48 /<X>/Media\_type\_restriction\_policy/<X>/Roaming .....25

5.49 /<X>/Default\_EPS\_bearer\_context\_usage\_restriction\_policy .....26

5.50 /<X>/Default\_EPS\_bearer\_context\_usage\_restriction\_policy/<X>/ .....26

5.51 /<X>/Default\_EPS\_bearer\_context\_usage\_restriction\_policy/<X>/Media\_type.....26

5.52 /<X>/Default\_EPS\_bearer\_context\_usage\_restriction\_policy/<X>/ICSI .....26

5.53 /<X>/Reliable\_18x\_policy.....27

5.54 /<X>/ Reliable\_18x\_policy /<X>/.....27

5.55 /<X>/ Reliable\_18x\_policy /<X>/ ICSI .....27

5.56 /<X>/ Reliable\_18x\_policy /<X>/ Send\_18x\_Reliablely .....27

5.57 /<X>/EPS\_initial\_attach\_ConRefs .....28

5.58 /<X>/EPS\_initial\_attach\_ConRefs/<X> .....28

5.59 /<X>/EPS\_initial\_attach\_ConRefs/<X>/ConRef.....28

5.60 /<X>/Precondition\_disabling\_policy .....28

5.61 /<X>/Timer\_Emerg-reg .....29

5.62 /<X>/Policy\_on\_local\_numbers .....29

5.63 /<X>/Policy\_on\_local\_numbers/<X>/ .....29

5.64 /<X>/Policy\_on\_local\_numbers/<X>/ICSI.....29

5.65 /<X>/Policy\_on\_local\_numbers/<X>/Local\_number\_type .....29

5.66 /<X>/3GPP\_PS\_data\_off.....30

5.67 /<X>/3GPP\_PS\_data\_off/SMSoIP\_exempt.....30

5.68 /<X>/3GPP\_PS\_data\_off/non\_3GPP\_ICSI\_exempt.....30

5.69 /<X>/3GPP\_PS\_data\_off/non\_3GPP\_ICSI\_exempt/<X> .....30

5.70 /<X>/3GPP\_PS\_data\_off/non\_3GPP\_ICSI\_exempt/<X>/non\_3GPP\_ICSI\_exempt .....31

5.71 /<X>/SMSoIP\_usage\_policy .....31

5.72 /<X>/Estimated\_P-CSCF\_Recover\_Time .....31

5.73 /<X>/Timer\_Emerg-request.....32

**Annex A (informative): Management Object DDF .....33**

**Annex B (informative): 3GPP IMS Client Provisioning Application Characteristics (CP AC) .....54**

B.1 General .....54

B.2 Definition of the 3GPP IMS Client Provisioning Application Characteristics .....54

**Annex C (informative): Change history .....57**

History .....60

---

# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

---

# 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] 3GPP TS 23.221: "Architectural requirements".