

# ETSI TS 124 407 V8.3.0 (2014-03)



**Digital cellular telecommunications system (Phase 2+);  
Universal Mobile Telecommunications System (UMTS);  
LTE;  
TISPAN;  
PSTN/ISDN simulation services;  
Originating Identification Presentation (OIP)  
and Originating Identification Restriction (OIR);  
Protocol specification  
(3GPP TS 24.407 version 8.3.0 Release 8)**



---

**Reference**

RTS/TSGC-0124407v830

---

**Keywords**

GSM,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>

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

<http://portal.etsi.org/tb/status/status.asp>

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

[http://portal.etsi.org/chaicor/ETSI\\_support.asp](http://portal.etsi.org/chaicor/ETSI_support.asp)

---

**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.

© European Telecommunications Standards Institute 2014.

All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

**GSM®** and the GSM logo are Trade Marks 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 (<http://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>.

# Contents

Intellectual Property Rights .....	2
Foreword.....	2
Foreword.....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
3 Definitions and abbreviations.....	7
3.1 Definitions .....	7
3.2 Abbreviations .....	8
4 Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR).....	9
4.1 Introduction .....	9
4.2 Description .....	9
4.2.1 General description .....	9
4.3 Operational requirements .....	10
4.3.1 Provision/withdrawal.....	10
4.3.1.1 OIP Provision/withdrawal.....	10
4.3.1.2 OIR Provision/withdrawal .....	10
4.3.2 Requirements on the originating network side.....	10
4.3.3 Requirements on the terminating network side.....	11
4.4 Syntax requirements .....	11
4.5 Signalling procedures .....	12
4.5.2 Invocation and operation .....	12
4.5.2.1 Actions at the originating UE.....	12
4.5.2.2 Actions at the originating P-CSCF.....	13
4.5.2.3 Actions at the S-CSCF serving the originating UE .....	13
4.5.2.4 Actions at the AS serving the originating UE .....	13
4.5.2.5 Actions at the outgoing I-CSCF (THIG).....	14
4.5.2.6 Actions at the incoming I-CSCF .....	14
4.5.2.7 Actions at the outgoing IBCF.....	14
4.5.2.8 Actions at the incoming IBCF.....	14
4.5.2.9 Actions at the AS serving the terminating UE .....	14
4.5.2.10 Actions at the S-CSCF serving the terminating UE .....	14
4.5.2.11 Actions at the destination P-CSCF.....	15
4.5.2.12 Actions at the terminating UE.....	15
4.6 Interaction with other simulation services.....	15
4.6.1 Communication Hold (HOLD).....	15
4.6.2 Terminating Identity Presentation (TIP).....	15
4.6.3 Terminating Identity Restriction (TIR).....	15
4.6.4 Originating Identity Presentation (OIP).....	15
4.6.5 Originating Identity Restriction (OIR).....	15
4.6.6 Conference calling (CONF).....	15
4.6.7 Communication diversion services (CDIV).....	16
4.6.8 Malicious Communication IDentification (MCID) .....	16
4.6.9 Incoming Communication Barring (ICB) .....	16
4.6.10 Explicit Communication Transfer (ECT) .....	16
4.7 Interactions with other networks .....	16
4.7.1 Interaction with PSTN/ISDN networks .....	16
4.7.2 Interworking with PSTN/ISDN emulation .....	16
4.7.3 Interaction with other IP networks.....	16
4.8 Signalling flows.....	17
4.9 Parameter values (timers).....	17
4.10 Service configuration .....	17
4.10.1 Data semantics .....	17

4.10.2	XML schema .....	18
<b>Annex A (informative):</b>	<b>Signalling flows .....</b>	<b>19</b>
<b>Annex B (informative):</b>	<b>Example of filter criteria .....</b>	<b>20</b>
B.1	Originating filter criteria for OIR service.....	20
B.2	Terminating filter criteria for OIP service.....	20
<b>Annex C (informative):</b>	<b>Change history .....</b>	<b>21</b>
History .....		22

---

## Foreword

This Technical Specification (TS) was been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN) and originally published as ETSI TS 183 007 [14]. It was transferred to the 3rd Generation Partnership Project (3GPP) in January 2008.

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

The present document specifies the stage three (protocol description) of the Originating Identification Presentation (OIP) simulation service and the Originating Identification Restriction (OIR) simulation services, based on stage one and two of the ISDN CLIP [4] and CLIR [5] supplementary service. Within the TISPAN NGN Release 1 the stage 3 description is specified using the IP-Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

NOTE: It should be noted that the behaviour described in this the present document does not take into account other behaviours that may be specified in other applications and care needs to be taken when designing the filters etc. when two or more applications are involved in a session.

---

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present 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*.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

For online referenced documents, information sufficient to identify and locate the source shall be provided. Preferably, the primary source of the referenced document should be cited, in order to ensure traceability. Furthermore, the reference should, as far as possible, remain valid for the expected life of the document. The reference shall include the method of access to the referenced document and the full network address, with the same punctuation and use of upper case and lower case letters.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

## 2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] ETSI ES 282 007: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Functional architecture".
- [2] ETSI ES 282 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Resource and Admission Control Sub-system (RACS); Functional Architecture".
- [3] ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 (Release 6)" for NGN Release 1".
- [4] ETSI EN 300 089: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".