

# ETSI TS 102 722-1 V2.1.1 (2010-03)

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*Technical Specification*

**Technical Committee for IMS Network Testing (INT);  
Originating Identification Presentation (OIP)  
and Originating Identification Restriction (OIR);  
Part 1: Protocol Implementation  
Conformance Statement (PICS)**

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Reference

DTS/INT-00001-1

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Keywords

SIP, PICS, OIP, OIR, testing

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## Foreword

This Technical Specification (TS) has been produced by IMS Network Testing (INT).

The present document is part 1 of a multi-part deliverable covering the Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)";**
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";
- Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

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# 1 Scope

The present document specifies the Protocol implementation conformance statement (PICS) for the Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) NGN Basic Service, TS 124 407 [5].

A further part of this multi-part deliverable specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document.

Within the TISPAN NGN Release 2, 3GPP release 8 Next Generation Network (NGN) the stage 3 description is specified using the IP-Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

The OIP service provides the terminating party with the possibility to receive a trusted (network-provided) identity of the originating party, and is applicable to all session-based services of the NGN.

The OIR service enables the originating party to prevent presentation of any network-provided identity to the terminating party, and is applicable to all session-based services of the NGN.

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# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

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

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 TS 102 722-2: "Technical Committee for IMS Network Testing (INT); Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Part 2: Test Suite Structure and Test Purposes (TSS&TP)".
- [2] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [4] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

- [5] ETSI TS 124 407: "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 Release 8)".
- [6] IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".

## 2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

- [i.1] ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".
- [i.2] ETSI TS 183 007: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification".

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

**abstract test case:** Refer to ISO/IEC 9646-1 [2].

**Abstract Test Suite (ATS):** Refer to ISO/IEC 9646-1 [2].

**Implementation Under Test (IUT):** Refer to ISO/IEC 9646-1 [2].

**implicit send event:** Refer to ISO/IEC 9646-3 [3].

**lower tester:** Refer to ISO/IEC 9646-1 [2].

**Point of Control and Observation (PCO):** Refer to ISO/IEC 9646-1 [2].

**Protocol Implementation Conformance Statement (PICS):** Refer to ISO/IEC 9646-1 [2].

**PICS proforma:** Refer to ISO/IEC 9646-1 [2].

**PIXIT proforma:** Refer to ISO/IEC 9646-1 [2].

**Protocol Implementation eXtra Information for Testing (PIXIT):** Refer to ISO/IEC 9646-1 [2].

**system under test:** Refer to ISO/IEC 9646-1 [2].

**Test Purpose (TP):** Refer to ISO/IEC 9646-1 [2].

### 3.2 Abbreviations

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

AS	Application Server
ATS	Abstract Test Suite
CLIP	Calling Line Identification Presentation

CLIR	Calling Line Identification Restriction
CN	Core Network
CS	Circuit Switched
CSCF	Call Session Control Function
IP	Internet Protocol
ISDN	Integrated Service Data Network
n/a	not applicable
NGN	Next Generation Network
OIP	Originating Identification Presentation
OIR	Originating Identification Restriction
PSTN	Public Switched Telephone Network
S-CSCF	Serving CSCF
SDP	Session Description Protocol
SIP	Session Initiation Protocol
SUT	System Under Test
URI	Universal Resource Identifier

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## 4 Protocol Implementation Conformance Statement (PICS) proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this clause so that it can be used for its intended purposes and may further publish the completed PICS.

### 4.1 Instructions for completing the PICS proforma

#### 4.1.1 More detailed instructions are given at the beginning of the different clauses of the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. If necessary, the supplier may provide additional comments separately in clause 5.

##### 4.1.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in reference specification [1] to [4] and ES 283 027 [i.1] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the PICS proforma;
- identification of the implementation;
- identification of the reference protocol specification;
- PICS proforma tables (containing the global statement of conformance).

##### 4.1.2 Abbreviations and conventions

The PICS proforma is composed of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

Item column:

It contains a number that identifies the item in the table.

Item description column:

It describes each respective item (e.g. parameters, timers, etc.).

Reference column:

It gives reference to the OIP/OIR specification [1] and TS 183 007 [i.2], except where explicitly stated otherwise.

Status column:

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

m	mandatory - the capability is required to be supported.
n/a	not applicable - in the given context, it is impossible to use the capability. No answer in the support column is required.
o	optional - the capability may be supported or not.
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci	conditional - the requirement on the capability ("m", "o" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression that is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities. If an ELSE clause is omitted, "ELSE n/a" shall be implied.

NOTE: Support of a capability means that the capability is implemented in conformance to the specifications [1] to [4] and ES 283 027 [i.1].

Support column:

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [4], are used for the support column:

Y or y	supported by the implementation.
N or n	not supported by the implementation.
N/A or n/a	no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status).

## 4.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides - the System Under Test (SUT) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### 4.2.1 Date of the statement

<b>Date of the statement::</b>	
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#### 4.2.2 Implementation Under Test (IUT) identification

<b>IUT name:</b>	
<b>IUT version:</b>	

#### 4.2.3 System Under Test (SUT) identification

<b>SUT name:</b>	
<b>Hardware configuration:</b>	
<b>Operating system:</b>	

#### 4.2.4 Product supplier

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone number:</b>	
<b>Facsimile number:</b>	
<b>Additional information:</b>	

#### 4.2.5 Client

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone number:</b>	
<b>Facsimile number:</b>	
<b>Additional information:</b>	

#### 4.2.6 PICS contact person

<b>Name:</b>	
<b>Telephone number:</b>	
<b>Facsimile number:</b>	
<b>Additional information:</b>	

### 4.3 PICS proforma tables

#### 4.3.1 Global statement of conformance

	<b>(Yes/No)</b>
<b>Are all mandatory capabilities implemented?</b>	

## 4.3.2 Roles and network capabilities

**Table 1: Roles and network capabilities**

Item	Item description	Reference	Status	Support
1	Is the implementation an originating user equipment?	4.5.2.1 of [5]	o	
2	Is the implementation a terminating user equipment?	4.5.2.12 of [5]	o	
3	Is the implementation connected with a trusted network?	4.5.2.7, 4.5.2.8, 4.7.3 of [5]	o	
4	Is the implementation connected with an untrusted network?	4.5.2.7, 4.5.2.8, 4.7.3 of [5]	o	
5	Does the network insert the display-name in the P-Asserted-Identity?	RFC 3325 [6]	o	
6	The Application Server serving the originating user set the From header field to the default public user identities if the received From header field does not match with one of the registered public user identities?	4.5.2.4 of [5]	c1	
7	The AS, serving the terminating user, anonymise the contents of the From header by setting it to a default non significant value if the terminating user does not subscribes to the OIP service?	4.5.2.9 of [5]	o	
8	Is the S-CSCF able to add a second P-Asserted-Identity header containing an associated tel-URI for a SIP URI contained in the P-Asserted-Identity header received in the request?	4.5.2.3 of [5]	o	
9	In case of OIR Permanent mode or temporary mode restricted, the originating AS includes the privacy value 'user'.	4.5.2.4 of [5]	c2	
10	In case of OIR Permanent mode or temporary mode restricted, the AS modifies the From header field to remove the identification information.	4.5.2.4 of [5]	c3	
11	In case of OIR temporary mode not restricted, the AS modifies the From header field to remove the identification information.	4.5.2.4 of [5]	o	
c.1 IF 2/6 THEN o ELSE n/a				
c.2 IF NOT 1/10 THEN o ELSE n/a				
c.3 IF NOT 1/9 THEN o ELSE n/a				

## 4.3.3 OIP/OIR user capabilities

**Table 2: OIP/OIR user capabilities**

Item	Item description	Reference	Status	Support
1	Does the terminating user subscribe the OIP service?	4.3.1.1 of [5]	o	
2	Does the originating user subscribe the OIR service in permanent mode?	4.3.1.2 of [5]	o	
3	Does the originating user subscribe the OIR service in temporary mode with default value "presentation not restricted"?	4.3.1.2 of [5]	o	
4	Does the originating user subscribe the OIR service in temporary mode with default value "presentation restricted"?	4.3.1.2 of [5]	o	
5	Does the terminating user choose the network option override category for the OIR service?	4.5.2.9 of [5]	o	
6	Does the originating user choose the network option "no screening" special arrangement?	4.3.2, 4.5.2.4 of [5]	o	

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## History

<b>Document history</b>		
V2.1.1	March 2010	Publication