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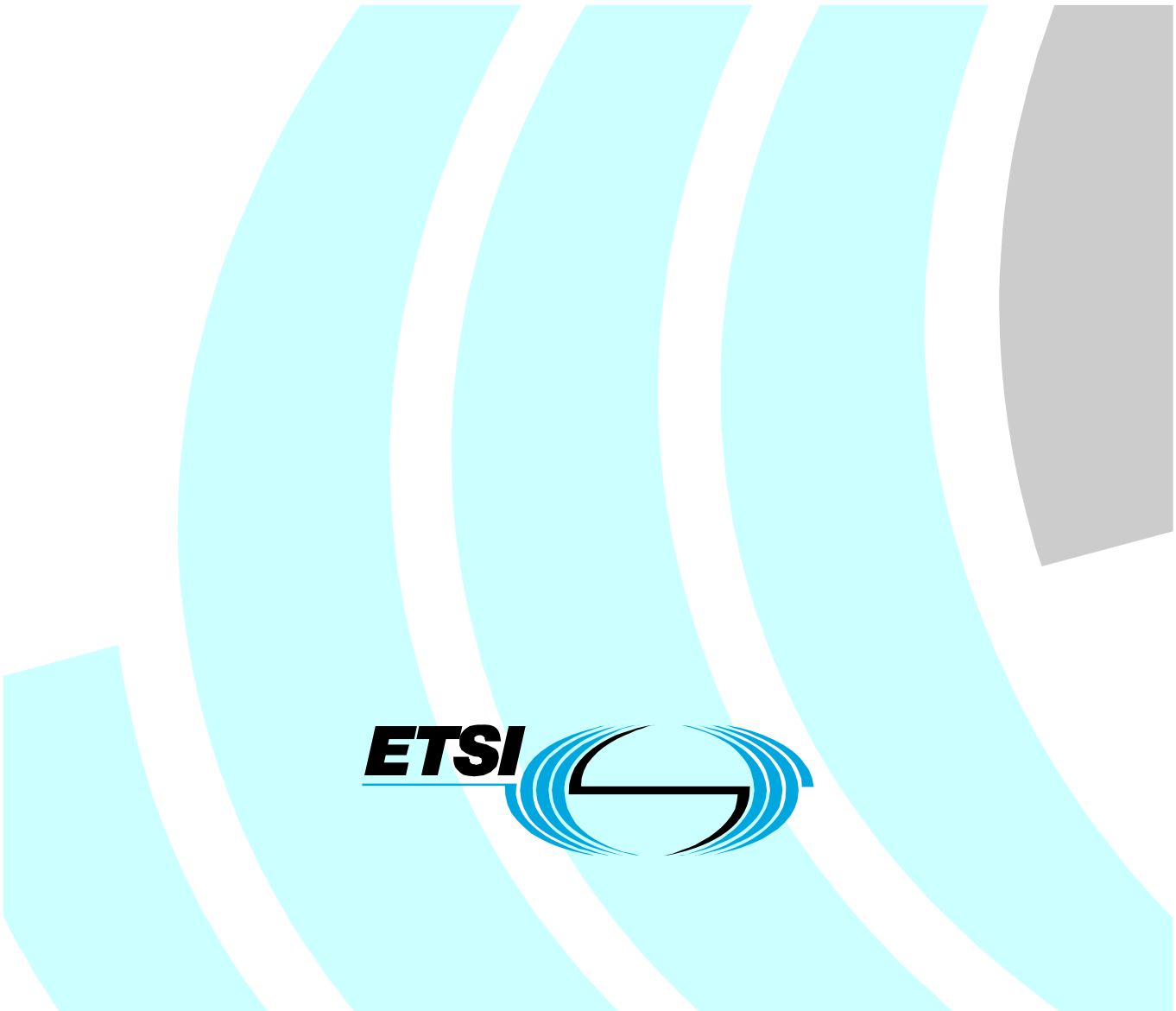
Technical Specification

Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Part 1: Protocol Implementation Conformance Statement (PICS)



Reference
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Contents

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 1 of a multi-part deliverable covering the Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) 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".

1 Scope

The present document specifies the Protocol implementation conformance statement (PICS) for the Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) NGN Basic Service, TS 183 008 [10].

A further part of the present document 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 1 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 TIP service provides the originating party with the possibility to receive a trusted (network-provided) identity of the terminating party, and is applicable to all session-based services of the NGN.

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

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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 181 002: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Multimedia Telephony with PSTN/ISDN simulation services".

[2] ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 [Release 7], modified]".

[3] ETSI EN 300 089: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".

[4] ETSI EN 300 090: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".

[5] IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".

[6] IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".

[7] IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".

[8] IETF RFC 3966: "The tel URI for Telephone Numbers".

[9] IETF RFC 3261: "SIP: Session Initiation Protocol".

[10] ETSI TS 183 008: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification".

[11] Void.

[12] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[13] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

[14] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[15] ETSI TS 183 004: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification".

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.

Not applicable.

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 [12].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [12].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [12].

implicit send event: Refer to ISO/IEC 9646-3 [13].

lower tester: Refer to ISO/IEC 9646-1 [12].

Point of Control and Observation (PCO): Refer to ISO/IEC 9646-1 [12].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [12].

PICS proforma: Refer to ISO/IEC 9646-1 [12].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [12].

PIXIT proforma: Refer to ISO/IEC 9646-1 [12].

system under test: Refer to ISO/IEC 9646-1 [12].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [12].

3.2 Abbreviations

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

AS	Application Server
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
IP	Internet Protocol
ISDN	Integrated Service Data Network
IUT	Implementaion Under Test
n/a	not applicable
NGN	Next Generation Network
OIR	Originating Identification Restriction
PSTN	Public Switched Telephone Network
SDP	Session Description Protocol
SIP	Session Initiation Protocol
SUT	System Under Test
TIP	Terminating Identification Presentation
TIR	Terminating Identification Restriction
URI	Universal Resource Identifier

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 specifications [1] to [10] 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 [14].

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 TIP/TIR specification [10], except where explicitly stated otherwise.

Status column:

The following notations, defined in ISO/IEC 9646-7 [14], 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 [10].

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 [14], 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

Date of the statement:	

4.2.2 Implementation Under Test (IUT) identification

IUT name:	
IUT version:	

4.2.3 System Under Test (SUT) identification

SUT name:	
Hardware configuration:	
Operating system:	

4.2.4 Product supplier

Name:	
Address:	
Telephone number:	
Facsimile number:	
Additional information:	

4.2.5 Client

Name:	
Address:	
Telephone number:	
Facsimile number:	
Additional information:	

4.2.6 PICS contact person

Name:	
Telephone number:	
Facsimile number:	
Additional information:	

4.3 PICS proforma tables

4.3.1 Global statement of conformance

	(Yes/No)
Are all mandatory capabilities implemented?	

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/ [10]	o	
2	Is the terminating user a terminating user equipment?	4.5.2.12/ [10]	o	
3	Is the implementation connected with a trusted network?	4.5.2.7, 4.5.2.8/ [10]	o	
4	Is the implementation connected with an untrusted network?	4.5.2.7, 4.5.2.8/ [10]	o	
5	Does the network insert the display-name in the P-Asserted-Identity	RFC 3325 [6]	o	
6	Is the network able to divert a call?	TS 183 004 [15]	o	
7	Does the network supports the “special arrangement” for the terminating user?	4.5.2.9 [10]	o	

4.3.3 TIP/TIR user capabilities

Table 2: TIP/TIR user capabilities

Item	Item description	Reference	Status	Support
1	Does the originating user subscribe the TIP service?	4.3.1.1/ [10]	o	
2	Does the terminating user subscribe the TIR service in permanent mode?	4.3.1.2/ [10]	o	
3	Does the terminating user subscribe the TIR service in temporary mode with default value "presentation not restricted"?	4.3.1.2/ [10]	o	
4	Does the terminating user subscribe the TIR service in temporary mode with default value "presentation restricted"?	4.3.1.2/ [10]	o	
5	Does the originating user subscribe the override category for the TIR service?	4.6.3/ [10]	o	
6	Does the user equipment supports the “from-change” tag in the Supported header?	4.5.2.12 [10]	o	
7	[2/6] Does the terminating user equipment send an UPDATE request if a “from-change” tag was received in the initial INVITE?	4.5.2.12 [10]	o	
8	The terminating user subscribes “special arrangement”?	4.5.2.9 [10]	o	

Table 3: CDIV user capabilities

Item	Item description	Reference	Status	Support
1	Does the served (forwarding/deflecting) user selects the option that the originating user is not notified of communication diversion?	TS 183 004 [15]	c31	
2	Does the served (forwarding/deflecting) user selects the option that the originating user is notified, but without the diverted-to address?	TS 183 004 [15]	c31	
c31: IF 1/6 THEN o ELSE n/a				

History

Document history		
V2.1.1	February 2009	Publication