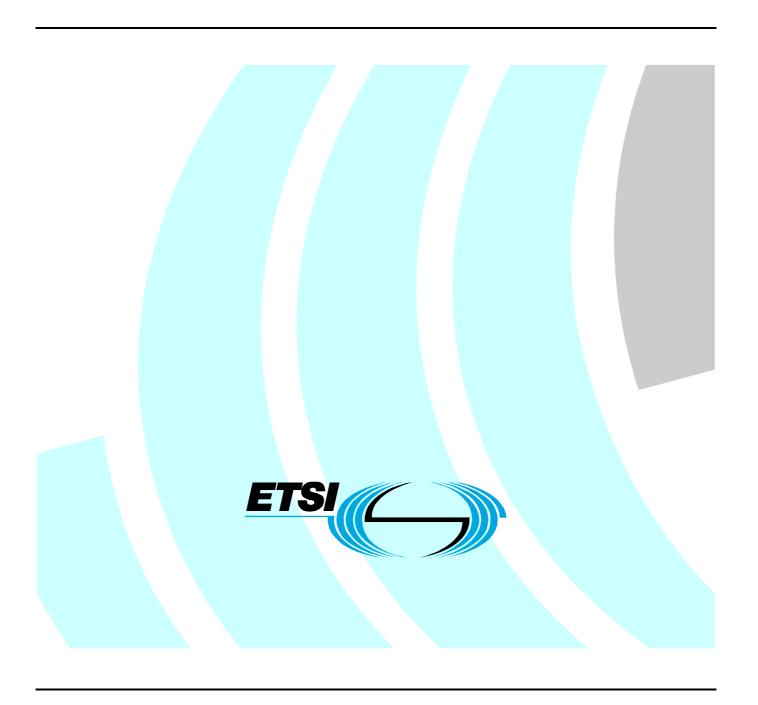
# ETSITS 186 021-1 V2.1.1 (2009-07)

Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);
PSTN/ISDN simulation services;
Completion of Communications to Busy Subscriber (CCBS)
Completion of Communications by No Reply (CCNR);
Part 1: Protocol Implementation Conformance
Statement (PICS)



# Reference DTS/TISPAN-06041-1-NGN-R2

Keywords
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#### **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

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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 protocol implementation conformance statement for the Completion of Communications to Busy Subscriber (CCBS) Completion of Communications by No Reply (CCNR), 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 of the Completion of Communications to Busy Subscriber (CCBS) service and the Completion of Communication on no Reply (CCNR) service, based on stage three of the IMS simulation services. Within the 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).

## 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:
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  - for informative references.

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

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### 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 183 042 (V2.1.1): "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN Simulation Services; Completion of Communications to Busy Subscriber (CCBS), Completion of Communications by No Reply (CCNR); Protocol Specification".
- [2] ISO/IEC IS 9646-7: "Information Technology Open Systems Interconnection conformance Testing Methodologie and framework Part 7 Implementation Conformance Statements".

### 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 terms and definitions given in [1] apply.

#### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in [1] and the following apply:

IUT Implementation Under Test.

SUT System Under Test

# 4 Protocol Implementation Conformance Statement proforma

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## 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] 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 [2]:

#### 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 CCBS/CCNR specification [1], except where explicitly stated otherwise.

#### Status column

The following notations, defined in ISO/IEC 9646-7 [2], 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 specification [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 [2], 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 PICS 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 Network capabilities

**Table 1: Network capabilities** 

Item	Item description	Reference	Status	Support	
1	Is the CCBS/CCNR request retention option supported?	4.5.4.2.3.2.4/[1]	0		
2	Is the retain option supported?	4.5.4.3.4.2/[1]	0		
3	Is it possible to activate a further CCBS or CCNR request for an identical communication, determined by the stored basic communication information	4.5.4.2.1.1.1/[1]	.1.1.1/[1] o		
4	Has the originating AS knowledge that UE-A does not support the REFER method extension, the originating AS 4.5.4.2.3/[1] ostarts the 3rd party call control procedures				
5	Does the originating CC-AS reduce the number of request entries for the caller?	4.5.4.2.1.1.3/[1]	0		
6	Does the terminating CC-AS reduce the number of request entries for the callee?	4.5.4.3.2/[1]	0		
7	Does the terminating CC-AS sends an indication to the originating CC-AS that CCBS or CCNR is possible if the terminating user has activated CFU while the recall is in progress?	4.6.8.2/[1]	0		
8	It is possible that an outstanding CC request can be revoked by the user using service code commands?	4.5.4.2.2.1.2/[1]	0		
9	Does the terminating CC-AS accepts a recall with identical originating and terminating identity information as stored in the request without CC indication?	4.5.4.3.4.1.3/[1] 4.5.4.3.4.1.4/[1]	0		

Table 2: Timer

Item	Timer number	Reference	Status	Support	Values in seconds	
					allowed	supported
	CC-T1	4.8.1/[1]	m		15	
	CC-T2	4.8.1/[1]	m		> 10	
	CC-T3	4.8.1/ [1]	m		≤ 10 800	
	CC-T4	4.8.1/[1]	m		≤ 20	
	CCNR-T5	4.8.1/ [1]	m		≤ 20	
	CC-T7	4.8.1/ [1]	m		≤ 11 400	
	CC-T8	4.8.1/[1]	m		≤ 10	
	CC-T9	4.8.1/[1]	m		≤ 30	

# 5 Additional informations for PICS

If necessary, the supplier may provide additional comments in this clause.

# History

Document history			
V2.1.1	July 2009	Publication	