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Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Part 1: Protocol Implementation Conformance Statement (PICS)

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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 Malicious Communication Identification (MCID) service, related to PSTN/ISDN simulation services, as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS)";

Part 2: "Test Suite Structure and Test Purposes (TSS&TP)".

1 Scope

The present document specifies the protocol implementation conformance statement of the Malicious Call Communication Identification (MCID) service based on the stage IMS Malicious Communication Identification simulation service. 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). The MCID service will store session related information independent of the service requested.

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.

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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 183 016: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Protocol Specification".

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

[3] ETSI TS 181 006: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Direct Communication Service in NGN; Service Description [Endorsement of OMA-ERELD-PoC-V1]".

[4] ETSI TR 180 000: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Terminology".

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

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

[7]   IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

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 TS 181 002 [2], TS 181 006 [3], TR 180 000 [4] and the following apply:

communication information: information collected and registered by the MCID service

identity information: includes all the information (RFC 3966 [6] // RFC 3986 [7]) identifying a user, including trusted (network generated) and/or untrusted (user generated) identities

trusted identity: network generated user address information

untrusted identity: user generated user address information

> NOTE: This may contain additional information.

3.2   Abbreviations

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

AS	Application server
HOLD	communication HOLD
IMS	IP Multimedia Subsystem
IP	Internet Protocol
ISDN	Integrated Service Digital Network
IUT	Implementation Under Test
MCID	Malicious Call Identification
MGCF	Media Gateway Control Function
NGN	Next Generation Network
PSTN	Public Switched Telephone Network
SDP	Session Description Protocol
SIP	Session Initiation Protocol
SUT	System Under Test
UE	User Equipment
URI	Uniform Resource Identifier

4   Protocol Implementation Conformance Statement 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 [7] 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 an information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [5].

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 MCID specification [1], except where explicitly stated otherwise.

Status column

The following notations, defined in ISO/IEC 9646-7 [5], 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(s) [1] to [7].

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 [5], 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   Roles and network capabilities

Table 1: Roles and network capabilities

Item	Item description	Reference	Status	Support
1	[UE] Is the invocation of the MCID service provided?	4.5.2.12.1	o	
2	[UE] Is the invocation of the MCID service using the XML MIME body **mcid** provided?	4.5.2.12.1	o	
3	Is the MCID service in permanent case provided?	4.5.2.5	o1	
4	Is the MCID service case by case provided?	4.5.2.5	o1	
5	Is the invocation of MCID by sending XML-MIME with XML mcid body MCID XML Request schema containing a McidRequestIndicator set to 1 provided?	4.5.2.12.1	c.1	
6	[MGCF] Is the interworking between MCID XML MIME body and ISUP IDR/IRS provided?	4.7.1	o	
7	[MGCF] Is the interworking of the "Holding indicator" provided (for national use)?	4.7.1.1	o	
8	Is a missing or incomplete originating ID requested?	4.5.2.5.3	c.1	
c.1:	IF 1/3 THEN o ELSE n/a.			
o.1:	For this service, it is mandatory to support at least one of these items.			

5   Additional information for PICS

History

Document history		
V1.0.0	June 2008	Publication