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Statement (PICS)

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 1 of a multi-part deliverable covering the Testing of the IBCF requirements, as identified below:

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

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

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document covers the Protocol Implementation Conformance Statement of testing the IBCF requirements. The focus is the Ic interface as the interconnection point between two network operators.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://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.

The following referenced documents are necessary for the application of the present document.

[1]	ETSI TS 124 229: "Digital cellular telecommunications system (Phase 2+); Universal Mobile
	Telecommunications System (UMTS); LTE; IP multimedia call control protocol based on Session
	Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3
	(3GPP TS 24.229 Release 9)".

- [2] ETSI TS 129 165: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 Release 9)".
- [3] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [4] 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)".
- [5] ETSI TS 124 508: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification (3GPP TS 24.508 Release 8)".
- [6] ETSI TS 124 505: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services: Conference (CONF); Protocol specification (3GPP TS 24.505 Release 8)".
- [7] ETSI TS 124 406: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services; Message Waiting Indication (MWI): Protocol specification (3GPP TS 24.406 Release 8)".
- [8] ETSI TS 124 410 (V8.0.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); TISPAN; NGN Signalling Control Protocol; Communication HOLD (HOLD) PSTN/ISDN simulation services; Protocol specification (3GPP TS 24.410 version 8.0.0 Release 8)".
- [9] ETSI TS 124 411: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Protocol specification (3GPP TS 24.411 Release 8)".

- [10] ETSI TS 124 516: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Protocol specification (3GPP TS 24.516 Release 8)".

 [11] ETSI TS 124 529: "Digital cellular telecommunications system (Phase 2+): Universal Mobile
- [11] ETSI TS 124 529: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services: Explicit Communication Transfer (ECT); Protocol specification (3GPP TS 24.529 Release 8)".
- [12] ETSI TS 124 454: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; PSTN/ISDN simulation services; Protocol specification Closed User Group (CUG) (3GPP TS 24.454 Release 8)".
- [13] ETSI TS 123 002: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Network architecture (3GPP TS 23.002 Release 9)".
- [14] ETSI TS 123 228: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228 Release 9)".
- [15] IETF RFC 4244: "An Extension to the Session Initiation Protocol (SIP) for Request History Information".
- [16] IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".
- [17] ETSI TS 129 658: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification (3GPP TS 29.658)".
- [18] ETSI TS 129 162: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the IM CN subsystem and IP networks (3GPP TS 29.162)".
- [19] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [20] ISO/IEC 9646-7: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [21] IETF RFC 4412: "Communications Resource Priority for the Session Initiation Protocol (SIP)".
- [22] IETF RFC 5626: "Managing Client-Initiated Connections in the Session Initiation Protocol (SIP)".
- [23] IETF RFC 6442: "Location Conveyance for the Session Initiation Protocol".
- [24] IETF RFC 6086: "Session Initiation Protocol (SIP) INFO Method and Package Framework".
- [25] IETF RFC 3911: "The Session Initiation Protocol (SIP) "Join" Header".
- [26] IETF RFC 5393: "Addressing an Amplification Vulnerability in Session Initiation Protocol (SIP) Forking Proxies".
- [27] IETF RFC 4028: "Session Timers in the Session Initiation Protocol (SIP)".
- [28] IETF RFC 3265: "Session Initiation Protocol (SIP)-Specific Event Notification".
- [29] IETF RFC 5373: "Requesting Answering Modes for the Session Initiation Protocol (SIP)".
- [30] IETF RFC 6809: "Mechanism to Indicate Support of Features and Capabilities in the Session Initiation Protocol (SIP)".
- [31] IETF RFC 3455: "Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3rd-Generation Partnership Project (3GPP)".
- [32] IETF RFC 7433: "A Mechanism for Transporting User-to-User Call Control Information in SIP".

IETF RFC 5002: "The Session Initiation Protocol (SIP) P-Profile-Key Private Header (P-Header)". [33] [34] IETF RFC 5502: "The SIP P-Served-User Private-Header (P-Header) for the 3GPP IP Multimedia (IM) Core Network (CN) Subsystem". [35] IETF RFC 6050: "A Session Initiation Protocol (SIP) Extension for the Identification of Services". [36] IETF RFC 5009: "Private Header (P-Header) Extension to the Session Initiation Protocol (SIP) for Authorization of Early Media". IETF RFC 4457: "The Session Initiation Protocol (SIP) P-User-Database Private-Header (P-[37] Header)". [38] IETF RFC 3841: "Caller Preferences for the Session Initiation Protocol (SIP)". [39] IETF RFC 5360: "A Framework for Consent-Based Communications in the Session Initiation Protocol (SIP)". IETF RFC 4964: "The P-Answer-State Header Extension to the Session Initiation Protocol for the [40] Open Mobile Alliance Push to Talk over Cellular". [41] IETF RFC 7316: "The Session Initiation Protocol (SIP) P-Private-Network-Indication Private Header (P-Header)". IETF RFC 5318: "The Session Initiation Protocol (SIP) P-Refused-URI-List Private-Header [42] (P-Header)". [43] IETF RFC 3327: "Session Initiation Protocol (SIP) Extension Header Field for Registering Non-Adjacent Contacts". IETF RFC 6794: "A Framework for Session Initiation Protocol (SIP) Session Policies". [44] IETF RFC 3262: "Reliability of Provisional Responses in the Session Initiation Protocol (SIP)". [45] [46] IETF RFC 3326: "The Reason Header Field for the Session Initiation Protocol (SIP)". [47] IETF RFC 3892: "The Session Initiation Protocol (SIP) Referred-By Mechanism". IETF RFC 4488: "Suppression of Session Initiation Protocol (SIP) REFER Method Implicit [48] Subscription". [49] IETF RFC 3515: "The Session Initiation Protocol (SIP) Refer Method". IETF RFC 3891: "The Session Initiation Protocol (SIP) "Replaces" Header". [50] IETF RFC 3311: "The Session Initiation Protocol (SIP) UPDATE Method". [51] [52] IETF RFC 3428: "Session Initiation Protocol (SIP) Extension for Instant Messaging". IETF RFC 3608: "Session Initiation Protocol (SIP) Extension Header Field for Service Route [53] Discovery During Registration ". [54] IETF RFC 7329: "A Session Identifier for the Session Initiation Protocol (SIP) ". [55] IETF RFC 3903: "Session Initiation Protocol (SIP) Extension for Event State Publication". [56] IETF RFC 5839: "An Extension to Session Initiation Protocol (SIP) Events for Conditional Event Notification". IETF RFC 4538: "Request Authorization through Dialog Identification in the Session Initiation [57] Protocol (SIP)". IETF RFC 2976: "The SIP INFO Method". [58]

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

[59]

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] to [21] and the following apply:

Back-to-Back User Agent (B2BUA): As given in IETF RFC 3261 [3].

NOTE: In addition, for the usage in the IM CN subsystem, a SIP element being able to handle a collection of "n" User Agents (behaving each one as UAC and UAS, according to SIP rules), which are linked by some application logic that is fully independent of the SIP rules.

PICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes a PICS

Protocol ICS (PICS): ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation Conformance Statement (PICS): statement made by the supplier of an implementation or system claimed to conform to a given protocol specification, stating which capabilities have been implemented

roaming: UE is in a geographic area that is outside the serving geographic area of the home IM CN subsystem

topology hiding: limiting the amount of topology information given to external parties

3.2 Symbols

For the purposes of the present document, the symbols given in [1] to [21] apply.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in [1] to [21] and the following apply:

ACR Anonymous Communication Rejection
AOC Advice Of Charge
B2BUA Back-to-Back User Agent

CB Communication Barring

CCBS Call Completion on Busy Subscriber
CCNR Call Completion on No Reply
CDIV Communication DIVersion

CN Core Network

CONF Conference using IP Multimedia (IM) Core Network (CN) subsystem

CUG Closed User Group CW Communication Waiting

ECT Explicit Communication Transfer

HOLD Communication Hold

IBCF Interconnect Border Control Function
ICS Implementation Conformance Statement

IM IP Multimedia

IMS IP Multimedia Subsystem
IMS-ALG IMS Application Level Gateway

INT Core Network and Interoperability Testing

IP Internet Protocol

IUTImplementation Under TestMCIDMallicious Call IDentification

MIME Multipurpose Internet Mail Extensions

MWI Message Waiting Indication

OIP/OIR Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR)

PICS Protocol ICS

SIP Session Initiation Protocol SUT System Under Test

TCP Transmission Control Protocol

TIP/TIR Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)

using IP Multimedia (IM) Core Network (CN) subsystem

TS Technical Specification
UAC User Agent Client
UAS User Agent Server
UDP User Datagram Protocol
UE User Equipment

4 Conformance to this PICS proforma specification

If it claims to conform to the present document, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in clause 4, and shall preserve the numbering/naming and ordering of the proforma items.

A PICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the guidance for completion given in clause 5.1.

5 PICS proforma for ETSI TS 124 229

5.0 Introduction

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 clause 7 so that it can be used for its intended purposes and may further publish the completed PICS.

5.1 Guidance for completing the PICS proforma

5.2 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 ETSI TS 124 229 [1] may provide information about the implementation in a standardized manner

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

- guidance for completing the PICS proforma;
- identification of the implementation;
- global statement of conformance;

- roles;
- IBCF capabilities.

5.3 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [20].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Status column

The following notations, defined in ISO/IEC 9646-7 [20], are used for the status column:

m mandatory - the capability is required to be supported.

o optional - the capability may be supported or not.

n/a not applicable - in the given context, it is impossible to use the capability.

o.i qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which

identifies an 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", "x" or "n/a") depends on the support of

other optional or conditional items. "i" is an integer identifying an unique conditional status

expression which is defined immediately following the table.

Reference column

The reference column makes reference to ETSI TS 124 229 [1], except where explicitly stated otherwise.

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 [20], are used for the support column:

Y or y supported by the implementation.

N or n not supported by the implementation.

N/A, n/a or - no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional

status).

5.4 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause 5.3.

If necessary, the supplier may provide additional comments in space at the bottom of the tables or separately.

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

6 Identification of the implementation

6.0 Introduction

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.

6.1	Date of the statement
6.2 IUT name:	Implementation Under Test (IUT) identification
IUT version:	
6.3 SUT name:	System Under Test (SUT) identification
Hardware co	nfiguration:
Operating sy	stem:
6.4 Name:	Product supplier

Address:	
Telephone number:	
Facsimile number:	••••••
E-mail address:	
Additional information:	
6.5 Client (if different from product supplier)	
Address:	
Telephone number:	
Facsimile number:	
E-mail address:	••••••
Additional information:	
	•••••

6.6 PICS contact person

	contact if there are any queries concerning the content of the ICS)
Name:	
Telephone n	umber:
Facsimile nu	ımber:
E-mail addre	ess:
Additional i	nformation:
6.7	Global statement of conformance
Are all man	datory capabilities implemented? (Yes/No)
NOTE:	Answering "No" to this question indicates non-conformance to ETSI TS 124 229 [1]. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is

7 Statement of conformance to ETSI TS 124 229 and ETSI TS 129 165

non-conforming, on pages attached to the PICS proforma.

7.1 Roles

Table 7.1.1: Roles

Item	Item description	Reference	Status	Support
1	The IUT supports Topology hiding, it means the SIP headers Via, Route, Record-Route, service-Route and Path are encrypted.	5.10.4	o.1	
2	The IUT is configured for IMS-ALG. The IUT acts as a Back-to-Back user agent.	5.10.5	0.1	
3	The IUT performs the screening of SIP signalling functionality.	5.10.7	0.1	
o.1:	It is mandatory to support one of these items.			
Commen	ts:			

7.2 IBCF capabilities

Table 7.2.1: Configuration of IBCF

Item	Item description	Reference	Status	Support
1	The IUT allows Roaming of users in the network.	5.10.2.1,	0	
	-	5.10.3.1		
2	The other network in an untrusted network.	4.4	0	
3	The external network is a non IMS IP network.	7.2.2/[19]	0	
4	The IUT is configured with two entry points to other	5.10.2.1, 3)	0	
	network (see note).			
5	IUT is configured for requiring periodic refreshment.	5.10.2.3	0	
6	The IUT is configured to allow the receipt of private	5.10.2.2, 5A)	0	
	network traffic from the other network.			
7	IUT is configured with two entry points to its own	5.10.3.1	0	
	network.			
NOTE:	Only one network is involved in the test.			
Comments:				

Table 7.2.2: Handling of headers

Item	Item description	Reference	Status	Support
1	The IUT passes the P-Charging-Vector header	5.10.6, annex A/[2],	0	
	unchanged.	4.6/[31]		
2	The IUT removes some values of the	5.10.6, annex A/[2],	0	
	P-Charging-Vector header in requests or responses.	4.6/[31]		
3	The IUT removes the P-Charging-Vector header	5.10.6, annex A/[2],	0	
	from requests or responses.	4.6/[31]		
4	The IUT determines to remove the P-Profile-Key	5.10.6, annex A/[2],	0	
	header field.	5/[33]		
5	The IUT determines to remove the P-Served-User	5.10.6, annex A/[2],	0	
	header field.	6/[34]		
6	IUT remove the P-Asserted-Service header field if	5.10.6, annex A/[2],	0	
	crosses the boundary of the trust domain.	4.1/[35]		
7	The IUT adds a P-Early-Media header in an INVITE	5.10.6, annex A/[2],	0	
	request.	8/[36]		
8	The IUT adds a P-Early-Media header in a response.	5.10.6, annex A/[2],	0	
		8/[36]		
9	The IUT removes a received P-Early-Media header	5.10.6, annex A/[2],	0	
	in an INVITE request.	8/[36]		
10	The IUT removes a received P-Early-Media header	5.10.6, annex A/[2],	0	
	in a response.	8/[36]		
11	The IUT modifies a received P-Early-Media header	5.10.6, annex A/[2],	0	
	in a response.	8/[36]		
12	The IUT adds a P-Asserted-Identity header field into	5.10.6, annex A/[2],	0	
	a SIP response.	9.1/[16]		
13	The IUT omits a P-Asserted-Identity header field	5.10.6, annex A/[2],	0	
44	from a SIP response.	9.1/[16]	7004	
14	The IUT supports the P-User-Database private	5.10.6, annex A/[2],	c7221	
45	header extension.	4/[37]	-7004	
15	The IUT supports the P-Visited-Network-ID header	5.10.6, annex A/[2],	c7221	
16	extension. The IUT supports the 'Session Timers in the Session	4.6/[31] 5.10.6, annex A/[2],		
10	Initiation Protocol'.	5.10.6, annex A/[2], 4/[27]	0	
17	The IUT supports the transporting of user to user	5.10.6, annex A/[2],	0	
''	information for call centres using SIP.	4.1 [32]	U	
18	The IUT supports the 'caller preferences for the	5.10.6, annex A/[2],	0	
10	Session Initiation Protocol'.	[38]	U	
19	The IUT adds a P-Asserted-Identity header field into	5.10.6, annex A/[2],	0	
19	an INVITE request.	9.1/[16]	U	
20	The IUT omits a P-Asserted-Identity header field	5.10.6, annex A/[2],	0	
20	from the INVITE request.	9.1/[16]	U	
21	The IUT supports the "Record Route" procedure.	20/[3]	0	
41	The for supports the frecold house procedule.	20/[3]	U	

Item	Item description	Reference	Status	Support
22	The IUT supports the Resource-Priority header.	[21]	0	
23	The IUT supports the Require header.	20/[3]	0	
24	The IUT supports the Call-Info header in request and	20/[3]	c7229	
	responses.			
25	The IUT supports the Accept header in requests and	20/[3]	0	
	responses.			
26	The IUT supports the Accept-Encoding header in	20/[3]	0	
	requests and responses.			
27	The IUT supports the Accept-Language header in	20/[3]	0	
	requests and responses.			
28	The IUT supports the Alert-Info header in request	20/[3]	0	
	and responses.			
29	The IUT supports the Accept-Resource-Priority	[21]	0	
20	header in requests and responses.	00/501		
30	The IUT supports the Allow header in requests and	20/[3]	0	
31	responses. The IUT supports the Allow-Events header in	6.0/[00]		
31	requests and responses.	6.3/[28]	0	
32	The IUT supports the Authentication-Info header in	20/[3]	c7221	
32	requests and responses.	20/[0]	01221	
33	The IUT supports the Authorization header in	20/[3]	c7221	
	requests and responses.	20/[0]	3.22.	
34	The IUT supports the Answer-Mode header in	2/[29]	0	
	requests and responses.			
35	The IUT supports the Content-Disposition header	20/[3]	0	
	in requests and responses.			
36	The IUT supports the Content-Encoding header in	20/[3]	0	
	requests and responses.			
37	The IUT supports the Content-Language header in	20/[3]	0	
	requests and responses.			
38	The IUT supports the Date header in request and	20/[3]	0	
	responses.	00/501		
39	The IUT supports the Error-Info header in	20/[3]	0	
40	responses. The IUT supports the Event header in request and	6.3/[28]	c7223	
40	responses.	0.3/[20]	07223	
41	The IUT supports the Expires header in request and	20/[3]	0	
"	responses.	20/[0]		
42	The IUT supports the Flow-Timer header in request	10/[22]	c7221	
	and responses.	. 0/[]	0	
43	The IUT supports the Geolocation header in	4/[23]	0	
	request and responses.	· L - J		
44	The IUT supports the Geolocation-Error header in	4/[23]	0	
	request and responses.			
45	The IUT supports the Geolocation-Routing header	4/[23]	0	
	in request and responses.			
46	The IUT supports the Feature-Caps header in	6.2.1/[30]	0	
	request and responses.	4/54 = 3	7000	
47	The IUT supports the History-Info header in request	4/[15]	c7222	
48	and responses. The IUT supports the Info-Package header in	0/[04]		
46	request and responses.	9/[24]	0	
49	The IUT supports the In-Reply-To header in request	20/[3]	0	
73	and responses.	20/[3]		
50	The IUT supports the Join header in request and	7.1/[25]	0	
	responses.	,[=0]		
51	The IUT supports the Max-Breadth header in	5.8/[26]	0	
	request and responses.	r -1		
52	The IUT supports the MIME-Version header in	20/[3]	0	
	request and responses.			
53	The IUT supports the Min-Expires header in request	20/[3]	0	
	and responses.			
54	The IUT supports the Organization header in	20/[3]	0	
	request and responses.			

Item	Item description	Reference	Status	Support
55	The IUT supports the P-Access-Network-Info	5.4/[31]	0	- Сирроп
	header in request and responses.			
56	The IUT supports the P-Answer-State header in	6/[40]	0	
	request and responses.			
57	The IUT supports the P-Associated-URI header in	6/[31]	c7221	
	request and responses.			
58	The IUT supports the P-Called-Party-ID header in	6/[31]	0	
	request and responses.			
59	The IUT supports the P-Charging-Function-	7/[41]	0	
	Addresses in request and responses.			
60	The IUT supports the P-Preferred-Service header in	4.1/[35]	0	
	request and responses.			
61	The IUT supports the P-Private-Network-Indication	7/[41]	0	
	in request and responses.	E /[40]	_	
62	The IUT supports the P-Refused-URI-List header in	5/[42]	0	
63	request and responses. The IUT supports the Path header in request and	4/[43]	c7221	
03	responses.	4/[43]	07221	
64	The IUT supports the Permission-Missing header	5/[39]	0	
04	in request and responses.	3/[33]		
65	The IUT supports the Policy-Contact header in	4.4.5/[44]	0	
	request and responses.	1. 1.0/[11]		
66	The IUT supports the Priority header in request and	20/[3]	0	
	responses.	[-]		
67	The IUT supports the Priv-Answer-Mode header in	2/[29]	0	
	request and responses.	-/[]		
67	The IUT supports the Privacy header in request and	4.2/[59]	0	
	responses.			
68	The IUT supports the Proxy-Authenticate header in	20/[3]	c7221	
	request and responses.			
69	The IUT supports the Proxy-Authorization header	20/[3]	c7221	
	in request and responses.			
70	The IUT supports the Proxy-Require header in	20/[3]	0	
74	request and responses.	7/[45]		
71	The IUT supports the RAck header in request and	7/[45]	0	
72	responses. The IUT supports the Reason header in request and	2/[46]		
12	responses.	2/[40]	0	
73	The IUT supports the Record-Route header in	20/[3]	0	
7.0	request and responses.	20/[0]		
74	The IUT supports the Recv-Info header in request	7.3/[24]	0	
, -	and responses.	7.0/[2.1]		
75	The IUT supports the Referred-By header in request	3/[47]	c7226	
	and responses.	٠,[]	0.220	
76	The IUT supports the Refer-Sub header in request	4/[48]	c7227	
	and responses.			
77	The IUT supports the Refer-To header in request	2.1/[49]	c7224	
	and responses.			
78	The IUT supports the Relayed-Charge header in	7.2.12/[1]	0	
	request and responses.			
79	The IUT supports the Replaces header in request	6/[50]	c7225	
	and responses.			
80	The IUT supports the Reply-To header in request	20/[3]	0	
	and responses.			
81	The IUT supports the Retry-After header in request	20/[3]	0	
00	and responses.	7.0.44/543		
82	The IUT supports the Restoration-Info header in	7.2.11/[1]	0	
83	request and responses.	00/[0]	 _ _	
03	The IUT supports the Route header in request and	20/[3]	0	
84	responses. The IUT supports the RSeq header in request and	7/[45]	_	
04	responses.	77[4 5]	0	
85	The IUT supports the Server header in request and	20/[3]	0	
	responses.	20/[0]		
<u> </u>	11		1	1

Item	Item description	Reference	Status	Support
86	The IUT supports the Service-Route header in	5/[53]	c7221	
	request and responses.			
87	The IUT supports the Session-ID header in request	7/[54]	0	
	and responses.			
88	The IUT supports the SIP-ETag header in request	11/[55]	c72210	
	and responses.			
89	The IUT supports the SIP-If-Match header in	11/[55]	c72211	
	request and responses.			
90	The IUT supports the Subject header in request and	20/[3]	0	
	responses.			
91	The IUT supports the Subscription-State header in	6.3/[28]	c7223	
	request and responses.			
92	The IUT supports the Suppress-If-Match header in	7/[56]	0	
- 00	request and responses.	00/501		
93	The IUT supports the Supported header in request	20/[3]	0	
94	and responses. The IUT supports the Target-Dialog header in	7/[57]		
94	request and responses.	7/[57]	0	
95	The IUT supports the Timestamp header in request	20/[3]	0	
33	and responses.	20/[3]	U	
96	The IUT supports the Trigger-Consent header in	5/[39]	0	
	request and responses.	0/[00]	O	
97	The IUT supports the Unsupported header in	20/[3]	0	
	request and responses.	_0/[0]	· ·	
98	The IUT supports the User-Agent header in request	20/[3]	0	
	and responses.			
99	The IUT supports the Warning header in responses.	20/[3]	0	
100	The IUT supports the MESSAGE method request	9/[52]	0	
	and responses.			
101	The IUT supports the OPTIONS method request and	25/[3]	0	
	responses.			
102	The IUT supports the PRACK method request and	6/[45]	0	
400	responses.			
103	The IUT supports the REGISTER method request	25/[3]	c7221	
404	and responses.	[00]	-	
104	The IUT supports the SUBSCRIBE method request	[28]	0	
105	and responses. The IUT supports the UPDATE method request and	7/[51]	-	
105	responses.	[[0]/1	0	
106	The IUT supports the PUBLISH method request and	11/[55]	0	
100	responses.	1 1/[00]	U	
107	The IUT supports the REFER method. request and	12.13/[2], 12.19/[2]	c7228	
.07	responses.	12.10/[2], 12.10/[2]	01220	
108	The IUT supports the INFO method. request and	[58]	0	
	responses.	[00]	Ŭ	
c7221:	IF 7.1.1/3 AND 7.2.1/1 THEN o ELSE n/a.			1

c7222: IF 7.2.3/3 THEN m ELSE n/a.

c7223: IF 7.2.3/8 OR 7.2.3/10 OR 7.2.3/11 OR 7.2.3/12 OR 7.2.3/13 THEN m ELSE n/a. c7224: IF (7.2.3/10 OR 7.2.3/11 OR 7.2.3/12 OR 7.2.3/13) AND 7.2.2/107 THEN m ELSE n/a.

c7225: IF 7.2.3/12 OR 7.2.3/13 THEN o ELSE n/a. c7226: IF 7.2.3/12 OR 7.2.3/13 THEN m ELSE n/a.

c7227: IF 7.2.2/107 THEN o ELSE n/a.

c7228: IF 7.2.3/12 OR 7.2.3/13 THEN o ELSE n/a. c7229: IF 7.2.3/10 OR 7.2.3/11 THEN o ELSE n/a.

c72210: IF 7.2.2/108 THEN m ELSE n/a. c72211: IF 7.2.2/108 THEN o ELSE n/a.

Comments:

Table 7.2.3: Support of simulation services

Item	Item description	Reference	Status	Support
1	The IUT supports the OIP/OIR simulation service.	12.3/[2]	0	
2	The IUT supports the TIP/TIR simulation service.	12.4/[2]	0	
3	The IUT supports the CDIV simulation service.	12.6/[2]	0	
4	The IUT supports the MCID simulation service.	12.2/[2]	0	
5	The IUT supports the ACR simulation service.	12.5/[2]	0	
6	The IUT supports the CW simulation service.	12.7/[2]	0	
7	The IUT supports the HOLD simulation service.	12.8/[2]	0	
8	The IUT supports the MWI simulation service.	12.9/[2]	0	
9	The IUT supports the CB simulation service.	12.10/[2]	0	
10	The IUT supports the CCBS simulation service.	12.11/[2]	0	
11	The IUT supports the CCNR simulation service.	12.12/[2]	0	
12	The IUT supports the ECT simulation service.	12.13/[2]	0	
13	The IUT supports the CONF simulation service.	12.19/[2]	0	
14	The IUT supports the CUG simulation service.	12.16/[2]	0	
15	The IUT supports 'Advice Of Charge (AOC) using IP	12.22/[2]	0	
	Multimedia (IM) Core Network (CN) subsystem'.			
16	The IUT supports 'SIP Transfer of IP Multimedia	[17]	0	
	Service Tariff Information'.			
17	The IUT supports the INFO request containing the	12.2/[2]	c7231	
	"application/vnd.etsi.mcid+xml" MIME body.			
18	The IUT supports the NOTIFY request containing the	12.19/[2]	c7232	
40	"application/ conference-info+xml" MIME body.	40.7/[0]		
19	The IUT supports the Response code 480	12.7/[2]	0	
	(Temporarily Unavailable) including a Reason header field set to cause 19.			
20	No agreement between the originating network and	12.16/[2]	0	
20	the terminating network exists to support the CUG	12.10/[2]	0	
	supplementary service.			
c7231:	IF 7.2.3/4 THEN o ELSE n/a.		I	1
c7232:	IF 7.2.3/13 THEN 0 ELSE n/a.			
Comment				

Table 7.2.4: IP configuration

Item	Item description	Reference	Status	Support	
1	UDP Transport protocol is used.	5.10.5, 17/[3]	/[3] o		
2	TCP Transport protocol is used.	5.10.5, 17/[3]	0		
3	The other network is an IPv4 network.	5.10.5, 9/[19]	0		
4	The other network is an IPv6 network.	5.10.5, 9/[19]	0		
5	The own network is an IPv4.	5.10.5, 9/[19]	0		
6	The own network is an IPv6 network.	5.10.5, 9/[19]	0		
7	The own network: UDP Transport protocol is used.	5.10.5, 17/[3]			
8	The own network: TCP Transport protocol is used.	5.10.5, 17/[3]			
Commen	s:				
İ					

Table 7.2.5: Codec handling

Item	Item description	Reference	Status	Support	
1	The IUT performs the media transcoding control in order to allow establishing communication between IM CN subsystems using different media codecs based on the interworking agreement and session information.	5.10.7.2	c7251		
2	Before forwarding the request to the answerer, the IUT adds to the selected media one or more codecs at the end of the codec list.	5.10.7.2	c7251		
c7251:	If 7.1.1/2 THEN o ELSE n/a.				
Comments:					

Annex A (informative): Bibliography

IETF RFC 6665: "SIP-Specific Event Notification".

IETF RFC 3313: "Private Session Initiation Protocol (SIP) Extensions for Media Authorization".

IETF RFC 3329: "Security Mechanism Agreement for the Session Initiation Protocol (SIP)".

History

Document history					
V1.1.1	October 2011	Publication			
V1.2.1	July 2014	Publication			
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