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Core Network and Interoperability Testing (INT);
Testing of the IBCF requirements;
(3GPP Release 9);
Part 2: Test Suite Structure and Test Purposes (TSS&TP)

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Contents

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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 2 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**", "**may not**", "**need**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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1 Scope

The present document specifies the test suite structure and test purposes of testing of the IBCF requirements. The focus is the Ic interface as the interconnection point between two network operators.

2 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 reference document (including any amendments) applies.

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

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2.1 Normative references

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] ETSI TS 101 553-1: "Core Network and Interoperability Testing (INT); Testing of the IBCF requirements; (3GPP Release 9); Part 1: Protocol Implementation Conformance Statement (PICS)".

[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: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; NGN Signalling Control Protocol; Communication HOLD (HOLD) PSTN/ISDN simulation services; Protocol specification (3GPP TS 24.410 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 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 129 162: "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)".

[18] IETF RFC 2663: "IP Network Address Translator (NAT) Terminology and Considerations".

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

[20] IETF RFC 4028: "Session Timers in the Session Initiation Protocol (SIP)".

[21] IETF RFC 4412: "Communications Resource Priority for the Session Initiation Protocol (SIP)".

2.2 Informative references

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.

[i.1] IEEE 802.11a-1999: "IEEE Standard for Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 11: Wireless Medium Access Control (MAC) and physical layer (PHY) specifications: High Speed Physical Layer in the 5 GHz band".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] to [19] apply.

NOTE: This may contain additional information.

3.2 Symbols

For the purposes of the present document, the symbols given in [1] to [19] apply.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in [1] to [19] apply.

4 Test Suite Structure (TSS)

The Test Suite Structure is in close alignment with clause 5.10, TS 124 229 [1].

Exit_Point				
	reg	IBCF_101_xxx		
	bcall	IBCF_102_xxx		
	scr	bcall	IBCF_103_xxx	
		ss	oip-oir	IBCF_104_xxx
			ss/tip-tir	IBCF_105_xxx
			cdiv	IBCF_106_xxx
			other	IBCF_107_xxx
	nch	reg	IBCF_108_xxx	
		bcall	IBCF_109_xxx	
	alg	sip	IBCF_110_xxx	
		sdp	IBCF_111_xxx	

Entry_Point				
	reg	IBCF_201_xxx		
	bcall	IBCF_202_xxx		
	scr	bcall	IBCF_203_xxx	
			oip-oir	IBCF_204_xxx
			tip-tir	IBCF_205_xxx
			cdiv	IBCF_206_xxx
			other	IBCF_207_xxx
	nch	reg	IBCF_208_xxx	
		bcall	IBCF_209_xxx	
	alg	sip	IBCF_210_xxx	
		sdp	IBCF_211_xxx	

5 Test Purposes (TP)

5.1 Introduction

For each requirement in [1] a TP is defined.

5.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 5.1.1-1).

Table 5.1.1-1: TP identifier naming convention scheme

Identifier: **IBCF_<group>_<nnn>**			
<group>	=	group	3 digit field representing group reference according to TSS
<nnn>	=	TP number	3 digit sequential number (001-999)

5.1.2 Test strategy

As the base standard TS 124 229 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 101 553-1 [3]. The criteria applied include the following:

- whether or not a test case can be built from the TP is not considered.

6 Test purposes IBCF test

6.1 IBCF as an exit point

6.1.1 Registration

TP number	IBCF_101_001	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	WWW-Authenticate header is passed unchanged		
Test Purpose	When an IBCF receives a REGISTER request from the visited network it shall forward this request to the other home network. If the IBCF receives the 401 Unauthorized final response from the other home network the WWW-Authenticate header is unchanged in the forwarded SIP response.		
SIP Parameter values	401 1: WWW-Authenticate 401 2: WWW-Authenticate		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
	401 Unauthorized 2 ←	←	401 Unauthorized 1
	Apply post test routine		

TP number	IBCF_101_002	Reference	5.10.2.1 3) **[1]**
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/2		
Test Purpose name	The Authorization header is passed unchanged		
Test Purpose	When an IBCF receives a REGISTER request from the visited network it shall forward this request to the other home network. The Authorization header remains unchanged in the forwarded SIP request.		
SIP Parameter values	REGISTER 1: Authorization Path Require: path P-Charging-Vector: icid; orig-ioi REGISTER 2: Authorization Path Require: path P-Charging-Vector: icid; orig-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER 1 →	→	REGISTER 2
	200 OK REGISTER ←	←	200 OK REGISTER
	Apply post test routine		

TP number	IBCF_101_003	Reference	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/2		
Test Purpose name	The P-Associated-URI, Path, Service-Route and P-Charging-Vector headers are passed unchanged		
Test Purpose	When an IBCF receives a 200 OK REGISTER request from the other (home) network it shall forward this request to the own (visited) network. The P-Associated-URI, Path, Service-Route, P-Charging-Vector headers remain unchanged in the forwarded SIP response.		
SIP Parameter values	200 OK 1: P-Associated-URI Path Service-Route P-Charging-Vector: term-ioi Contact 200 OK 2: P-Associated-URI Path Service-Route P-Charging-Vector: term-ioi Contact		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER 1 →	→	REGISTER 2
	200 OK REGISTER ←	←	200 OK REGISTER
	Apply post test routine		

TP number	IBCF_101_004	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The Event and Expires header are passed unchanged		
Test Purpose	When an IBCF receives a SUBSCRIBE request from the visited network it shall forward this request to the other home network. The Event header and the Expires header remain unchanged in the request.		
SIP Parameter values	SUBSCRIBE 1: Event: reg P-Charging-Vector: icid Expires: 600 000 SUBSCRIBE 2: Event: reg P-Charging-Vector: icid Expires: 600 000		
Comments			
Message flows	**Mx** **SUT** **Ic** **The registration procedure was successful** SUBSCRIBE 1 → → SUBSCRIBE 2 200 OK SUBSCRIBE ← ← 200 OK SUBSCRIBE **Apply post test routine**		

TP number	IBCF_101_005	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The 'reginfo' body is passed unchanged		
Test Purpose	When an IBCF receives a NOTIFY request from the visited network it shall forward this request to the other home network. The Event header and the XML body remain unchanged in the request.		
SIP Parameter values	NOTIFY 1: Event: reg Content-Type: application/reginfo+xml <?xml version="1.0"?> <reginfo xmlns="urn:ietf:params:xml:ns:reginfo" version="1" state="partial"> <registration aor="sip:[*any value*]" id="[*any value*]" state="active"> <contact id="[*any value*]" state="active" event="registered" duration-registered="0"> <uri>sip:[any value]</uri> </contact> </registration> </reginfo> NOTIFY 2: Event: reg Content-Type: application/reginfo+xml <?xml version="1.0"?> <reginfo xmlns="urn:ietf:params:xml:ns:reginfo" version="1" state="partial"> <registration aor="sip:[*any value*]" id="[*any value*]" state="active"> <contact id="[*any value*]" state="active" event="registered" duration-registered="0"> <uri>sip:[any value]</uri> </contact> </registration> </reginfo>		
Comments			
Message flows	**Mx** **SUT** **Ic** **The registration procedure was successful** NOTIFY 1 → → NOTIFY 2 200 OK NOTIFY ← ← 200 OK NOTIFY **Apply post test routine**		

TP number	IBCF_101_006	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/4		
Test Purpose name	The IBCF selects an alternative entry point to the other network if a 3xx was received		
Test Purpose	When an IBCF receives a SIP 3xx (Redirection) response from another (home) network entry point to a previously forwarded SIP REGISTER request, it shall resend the Register request to another entry point to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to home network		
Message flows	**Mx** **SUT** **Ic 1** **Ic 2** REGISTER → → REGISTER ← 3xx → REGISTER 200 OK REGISTER ← ← 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_101_007	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/4		
Test Purpose name	The IBCF selects an alternative entry point to the other network if a 480 was received		
Test Purpose	When an IBCF receives SIP 480 (Temporarily Unavailable) response from a home network entry point to a previously forwarded SIP REGISTER request, it shall forward the Register request to another home network entry point to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to home network		
Message flows	**Mx** **SUT** **Ic 1** **Ic 2** REGISTER → → REGISTER ← 480 Temporarily Unavailable → REGISTER 200 OK REGISTER ← ← 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_101_008	**Reference**	5.10.2.1 3) [**1**]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/4		
Test Purpose name	The IBCF selects an alternative entry point to the other network if no response was received		
Test Purpose	When an IBCF receives no response from a home network entry point to a previously forwarded SIP REGISTER request, it shall forward the Register request to another home network entry point to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to home network		
Message flows	**Mx** **SUT** **Ic 1** **Ic 2** REGISTER → → REGISTER No response → REGISTER 200 OK REGISTER ← ← 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_101_009	Reference	5.10.2.1 3) [1]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The IBCF sends a 504 if a 3xx to a REGISTER request was received		
Test Purpose	If an IBCF receives a SIP 3xx (Redirection) response to a SIP REGISTER request from all entry points in the registering user s home network, it shall send a SIP 504 (Server Time-Out) response to the P-CSCF.		
SIP Parameter values			
Comments	IUT configured with one entry points to home network		
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
		←	3xx
	504 Server Time-Out ←		
	Apply post test routine		

TP number	IBCF_101_010	Reference	5.10.2.1 3) [1]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The IBCF sends a 504 if a 480 to a REGISTER request was received		
Test Purpose	If an IBCF receives a SIP 480 (Temporarily Unavailable) response to a SIP REGISTER request from all entry points in the registering user s home network, it shall send a SIP 504 (Server Time-Out) response to the P-CSCF.		
SIP Parameter values			
Comments	IUT configured with one entry points to home network		
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
		←	480 Temporarily Unavailable
	504 Server Time-Out ←		
	Apply post test routine		

TP number	IBCF_101_011	Reference	5.10.2.1 3) [1]
TSS reference	Exit_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The IBCF sends a 504 if no response to a REGISTER request was received		
Test Purpose	If an IBCF receives no response to a SIP REGISTER request from all entry points in the registering user s home network, it shall send a SIP 504 Server Time-Out response to the P-CSCF.		
SIP Parameter values			
Comments	IUT configured with one entry points to home network		
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
		No response	
	504 Server Time-Out ←		
	Apply post test routine		

6.1.2 Basic call

TP number	IBCF_102_001	Reference	5.10.2.2 1) [1]
TSS reference	Exit_Point/bcall		
Selection criteria			
Test Purpose name	The SUT responds with a 100 Trying after an INVITE was received		
Test Purpose	When the IBCF receives an INVITE request, the SUT responds with a 100 Trying		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_002	Reference	5.10.2.2 2B) [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/23		
Test Purpose name	The IBCF performs the Record-Route procedure		
Test Purpose	When the IBCF sends an INVITE request to the other network a Record-Route header field value is added to the request identifying the IBCF itself.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_003	Reference	5.10.2.2 7) [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/1		
Test Purpose name	The P-Charging-Vector header is supported unchanged		
Test Purpose	When the IBCF sends an INVITE request to the other network, the P-Charging-Vector present as received from the own network.		
SIP Parameter values	INVITE 1: P-Charging-Vector: icid-value; orig-ioi INVITE 2: P-Charging-Vector: icid-value; orig-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_004	Reference	5.10.2.2 7) [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/2		
Test Purpose name	Some values of the P-Charging-Vector are not present		
Test Purpose	When the IBCF sends an INVITE request to the other network, some values of the P-Charging-Vector are not present.		
SIP Parameter values	INVITE 1: P-Charging-Vector: icid-value; orig-ioi INVITE 2: P-Charging-Vector header some values not present		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_005	Reference	5.10.2.2 7) [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector is not present		
Test Purpose	When the IBCF sends an INVITE request to the other network, the P-Charging-Vector is not present.		
SIP Parameter values	INVITE 1: P-Charging-Vector: icid-value; orig-ioi INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_006	**Reference**	5.10.2.2 8) [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria			
Test Purpose name	P-Charging-Function-Addresses header is not present		
Test Purpose	When the IBCF sends an INVITE request to the other network, the P-Charging-Function-Addresses header is not present.		
SIP Parameter values	INVITE 2: P-Charging-Function-Addresses header is not present		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_102_007	**Reference**	5.10.2.2, paragraph 10 [**1**], RFC 4028 [**20**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/5		
Test Purpose name	Periodic refreshment is supported		
Test Purpose	When the IBCF receives an INVITE request and the IBCF requires the periodic refreshment of the session it shall add a Session-Expires prior to forwarding the INVITE to other networks.		
SIP Parameter values	**INVITE** 2 Session-Expires: <configured value>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_102_008	**Reference**	4.4.6 [**1**], [**21**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 5.2.2/24 AND PICS 5.2.2/25 NOT PICS 7.2.1/2		
Test Purpose name	A Resource-Priority header field is passed to a trusted network option tag in Require header		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Resource-Priority header field is present, it leaves the Resource-Priority header field header fields in the SIP requests if the other network is trusted or the request is rejected with a 420 response if not supported .		
SIP Parameter values	INVITE 1: Require: resource-priority Resource-Priority: q735.0 INVITE 2: Require: resource-priority Resource-Priority: q735.0		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → 100 Trying ← **CASE A** → INVITE **CASE B** 420 Bad Extension ← ACK → **Apply post test routine**		

TP number	IBCF_102_008A	Reference	4.4.6 [1], [21]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 5.2.2/24 AND NOT PICS 7.2.1/2		
Test Purpose name	A Resource-Priority header field is passed to a trusted network option tag in Supported header		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a Resource-Priority header field is present, it leaves the Resource-Priority header field header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: Supported: resource-priority Resource-Priority: q735.0 INVITE 2: Supported: resource-priority Resource-Priority: q735.0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_009	Reference	4.4.6 [1], [21]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A Resource-Priority header field is removed from the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Resource-Priority header field is present, it removes the Resource-Priority header field header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: Require: resource-priority Resource-Priority: q735.0 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_010	Reference	4.4.7 [1]
TSS reference	Exit_Point/bcall		
Selection criteria			
Test Purpose name	A Reason header is passed in a SIP response		
Test Purpose	When an IBCF receives a SIP response from the other network and a Reason header field is present as indicated in table 6.1.2-1, this header field is passed in the forwarded response to the own network.		
SIP Parameter values	SIP_response 1: Reason: Q.850;cause=**Response_cause** SIP_response 2: Reason: Q.850;cause=**Response_cause**		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	VA_response 2 ←	←	SIP_response 1
	ACK →	→	ACK

Table 6.1.2-1: Receipt of the Reason header in response

Response_cause	← SIP_response
	Status code Reason header
VA_01	404 Not Found Reason: Q.850; cause=1 (unallocated (unassigned) number)
VA_02	500 Server Internal error Reason: Q.850; cause=2 (no route to network)
VA_03	500 Server Internal error Reason: Q.850; cause=3 (no route to destination)
VA_04	500 Server Internal error Reason: Q.850; cause=4 (Send special information tone)
VA_05	404 Not Found Reason: Q.850; cause=5 (Misdialled trunk prefix)
VA_06	486 Busy Here Reason: Q.850; cause=17 (user busy)
VA_07	480 Temporarily unavailable Reason: Q.850; cause=18 (no user responding)
VA_08	480 Temporarily unavailable Reason: Q.850; cause=19 (no answer from the user)
VA_09	480 Temporarily unavailable Reason: Q.850; cause=20 (subscriber absent)
VA_10	603 Decline Reason: Q.850; cause=21 (call rejected)
VA_11	480Temporarily unavailable Reason: Q.850; cause=21 (call rejected)
VA_12	410 Gone Reason: Q.850; cause=22 (number changed)
VA_13	433 Anonymity Disallowed Reason: Q.850; cause=24 (call rejected due to ACR supplementary service)
VA_14	483 Too many hops Reason: Q.850; cause=25 (Exchange routing error)
VA_15	480 Temporarily unavailable Reason: Q.850; cause=26 (Non-selected user clearing)
VA_16	502 Bad Gateway Reason: Q.850; cause=27 (destination out of order)
VA_17	484 Address Incomplete Reason: Q.850; cause=28 invalid number format (address incomplete)
VA_18	500 Server Internal error Reason: Q.850; cause=29 (facility rejected)
VA_19	480 Temporarily unavailable Reason: Q.850; cause=31 (normal unspecified)
VA_20	486 Busy here Reason: Q.850; cause=34 (No circuit/channel available)
VA_21	480 Temporarily unavailable Reason: Q.850; cause=34 (No circuit/channel available)
VA_22	500 Server Internal error Reason: Q.850; cause=41 (Temporary failure)
VA_23	500 Server Internal error Reason: Q.850; cause=50 (requested facility no subscribed)
VA_24	603 Decline Reason: Q.850; cause=55 (Incoming class barred within Closed User Group)
VA_25	403 Forbidden Reason: Q.850; cause=57 (bearer capability not authorized)
VA_26	500 Server Internal error Reason: Q.850; cause=58 (bearer capability not presently)
VA_27	500 Server Internal error Reason: Q.850; cause=63 (service option not available, unspecified)
VA_28	500 Server Internal error Reason: Q.850; cause=65 (Bearer capability not implemented)
VA_29	403 Forbidden Reason: Q.850; cause=87 (User not member of Closed User Group)

Response_cause	← SIP_response
	Status code Reason header
VA_30	500 Server Internal error Cause value No 88 (incompatible destination)
VA_31	403 Forbidden Reason: Q.850; cause=90 (Non existing Closed User Group)
VA_32	500 Server Internal error Reason: Q.850; cause=91 (invalid transit network selection)
VA_33	500 Server Internal error Reason: Q.850; cause=95 (invalid message)
VA_34	501 Not Implemented Reason: Q.850; cause=97 (Message type non-existent or not implemented)
VA_35	501 Not Implemented Reason: Q.850; cause=99 (information element/parameter non-existent or not implemented))
VA_36	480 Temporarily unavailable Reason: Q.850; cause=102 (recovery on timer expiry)
VA_37	501 Not Implemented Reason: Q.850; cause=110 (Message with unrecognised Parameter, discarded)
VA_38	500 Server Internal error Reason: Q.850; cause=111 (protocol error, unspecified)
VA_39	500 Server Internal error Reason: Q.850; cause=127 (interworking unspecified)

TP number	IBCF_102_011	**Reference**	4.4.8 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/4		
Test Purpose name	The P-Profile-Key header is forwarded to the trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Profile-Key header field is present, it leaves the P-Profile-Key header field header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_012	**Reference**	4.4.8 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/4		
Test Purpose name	The P-Profile-Key header is not forwarded to the trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Profile-Key header field is present, it removes the P-Profile-Key header field header fields from the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_013	Reference	4.4.8 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P-Profile-Key header is not forwarded to the untrusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Profile-Key header field is present, it removes the P-Profile-Key header field header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_014	Reference	4.4.9 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/5		
Test Purpose name	The P-Served-User header is forwarded to the trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Served-User header field is present, it leaves the P-Served-User header field header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_015	Reference	4.4.9 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/5		
Test Purpose name	The P-Served-User header is not forwarded to the trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Served-User header field is present, it removes the P-Served-User header field header fields from the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_016	**Reference**	4.4.9 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P-Served-User header is not forwarded to the untrusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Served-User header field is present, it removes the P-Served-User header field header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_017	**Reference**	4.4.10 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2		
Test Purpose name	A P-Private-Network-Indication header field is passed to a trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Private-Network-Indication header field is present, it leaves the P-Private-Network-Indication header field header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Private-Network-Indication: [any URI] INVITE 2: P-Private-Network-Indication: [any URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_018	**Reference**	4.4.10 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A P-Private-Network-Indication header field is removed from the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Private-Network-Indication header field is present, it removes the P-Private-Network-Indication header field header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Private-Network-Indication: [any URI] INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_019	Reference	4.4.3 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2		
Test Purpose name	A P-Access-Network-Info header field is passed to a trusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Access-Network-Info header field is present, it leaves the P-Access-Network-Info header field header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Access-Network-Info: IEEE 802.11a [i.1] INVITE 2: P-Access-Network-Info: IEEE 802.11a [i.1]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_020	Reference	4.4.3 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A P-Access-Network-Info header field is removed from the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from its own network and a P-Access-Network-Info header field is present, it removes the P-Access-Network-Info header field header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Access-Network-Info: IEEE 802.11a [i.1] INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_021	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/6 AND PICS 7.1.1/2		
Test Purpose name	The P-Asserted-Service header field is left in the INVITE request when crosses the boundary of the trust domain		
Test Purpose	When an IBCF receives an INVITE request from its own network and a P-Asserted-Service header is present, it leaves the P-Asserted-Service header fields in the SIP request if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_102_022	**Reference**	4.4.5 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/6 AND PICS 7.1.1/2		
Test Purpose name	The P-Asserted-Service header field is removed from the INVITE request when crosses the boundary of the trust domain		
Test Purpose	When an IBCF receives an INVITE request from its own network and a P-Asserted-Service header is present, it removes the P-Asserted-Service header fields from the SIP request if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2: P-Asserted-Service header is **not present**		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_102_023	**Reference**	4.4.5 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.1/2 AND PICS 7.1.1/2		
Test Purpose name	The P-Asserted-Service header field is removed from the INVITE request		
Test Purpose	When an IBCF receives an INVITE request from within its own network and a P-Asserted-Service header is present, it removes the P-Asserted-Service header fields in the SIP request if the other network untrusted.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_102_024	**Reference**	5.10.6.2 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/7 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the INVITE request sent to the other network.		
SIP Parameter values	INVITE 1: INVITE 2: P-Early-Media: supported		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_102_025	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/8 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the 180 Ringing response sent to the own network.		
SIP Parameter values	180 Ringing 1: 180 Ringing 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_026	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/8 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the other network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the 183 Session Progress response sent to the own network.		
SIP Parameter values	183 Session Progress 1: 183 Session Progress 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress 2 ←	←	183 Session Progress 1
	Apply post test routine		

TP number	IBCF_102_027	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/9 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header to the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the INVITE request sent to the other network.		
SIP Parameter values	INVITE 1: P-Early-Media: supported INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_102_028	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/10 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header to the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the 180 Ringing response sent to the own network.		
SIP Parameter values	180 Ringing 1: P-Early-Media: 180 Ringing 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_029	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/10 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header to the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the other network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the 183 Session Progress response sent to the own network.		
SIP Parameter values	183 1: P-Early-Media: 183 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress 2 ←	←	183 Session Progress 1
	Apply post test routine		

TP number	IBCF_102_030	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/11 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF modifies the P-Early-Media header to the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and a P-Early-Media header is present, ensure that the P-Early-Media header is modified in the 180 Ringing response sent to the own network.		
SIP Parameter values	180 Ringing 1: P-Early-Media: Not equal to 180 Ringing 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_031	Reference	5.10.6.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/11 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF modifies the P-Early-Media header to the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the other network and a P-Early-Media header is present, ensure that the P-Early-Media header is modified in the 183 Session Progress response sent to the own network.		
SIP Parameter values	183 1: P-Early-Media: 183 2: P-Early-Media: Not equal to the received value		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress 2 ←	←	183 Session Progress 1
	Apply post test routine		

TP number	IBCF_102_032	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/12		
Test Purpose name	P-Asserted-Identity not received IBCF adds a P-Asserted-Identity to a 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and no P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included in the 180 Ringing response sent to the own network.		
SIP Parameter values	180 1: 180 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_033	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/12		
Test Purpose name	P-Asserted-Identity not received IBCF adds a P-Asserted-Identity to a 200 response		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and no P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included in the 200 OK INVITE response sent to the own network.		
SIP Parameter values	200 OK 1: 200 OK 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_102_034	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/12 AND PICS 7.2.2/13		
Test Purpose name	P-Asserted-Identity not received IBCF replaces the P-Asserted-Identity to a 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and a P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included and the received P-Asserted-Identity is removed from the 180 Ringing response sent to the own network.		
SIP Parameter values	180 1: P-Asserted-Identity: <[any URI]> 180 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_035	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/12 AND PICS 7.2.2/13		
Test Purpose name	P-Asserted-Identity not received IBCF replaces the P-Asserted-Identity to a 200 response		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and a P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included and the received P-Asserted-Identity is removed from the 200 OK INVITE response sent to the own network.		
SIP Parameter values	200 OK 1: P-Asserted-Identity: <[any URI]> 200 OK 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_102_036	Reference	4.4.5 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/13		
Test Purpose name	P-Asserted-Identity received IBCF omits the P-Asserted-Identity from the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network and a P-Asserted-Identity is present, ensure that the received P-Asserted-Identity header is omitted from the 180 Ringing response sent to the own network.		
SIP Parameter values	180 1: P-Asserted-Identity: <[any URI]> 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_102_037	**Reference**	4.4.5 [**1**]
TSS reference	Exit_Point/bcall		
Selection criteria	PICS 7.2.2/13		
Test Purpose name	P-Asserted-Identity received IBCF omits the P-Asserted-Identity from the 200 response		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and a P-Asserted-Identity is present, ensure that the received P-Asserted-Identity header is omitted from the 200 OK INVITE response sent to the own network.		
SIP Parameter values	200 OK 1: P-Asserted-Identity: <[any URI]> 200 OK 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_102_038	**Reference**	5.10.2 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network forwards the message to the other network after having inserted in first position a Via header set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	INVITE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] INVITE 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_102_039	**Reference**	5.10.2 [**1**], 16.4 [**19**]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the ACK		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the own network forwards the message to the other network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	ACK 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] ACK 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_102_040	Reference	5.10.2 [1], 16.6 [19]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the CANCEL		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the own network forwards the message to the other network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	CANCEL 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] CANCEL 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL 1 →	→	CANCEL 2
	Apply post test routine		

TP number	IBCF_102_041	Reference	5.10.2 [1], 16.6 [19]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the BYE		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the own network forwards the message to the other network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	BYE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] BYE 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE 1 →	→	BYE 2
	Apply post test routine		

TP number	IBCF_102_042	Reference	5.10.2 [1], 16.4 [19]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in ACK		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the own network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the other network.		
SIP Parameter values	ACK 1: Route: <sip:[URI of IBCF]>;lr Route: <sip:[any URI]>;lr ACK 2: Route: <sip:[any URI]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_102_043	Reference	5.10.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	ACK without Route header received		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the own network without a Route header, forwards the message to the address in the Request-URI in the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_102_044	Reference	5.10.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in CANCEL		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the own network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the other network.		
SIP Parameter values	CANCEL 1: Route: <sip:[URI of IBCF]>;lr Route: <sip:[any URI]>;lr CANCEL 2: Route: <sip:[any URI]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL 1 →	→	CANCEL 2
	Apply post test routine		

TP number	IBCF_102_045	Reference	5.10.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria			
Test Purpose name	CANCEL without Route header received		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the own network without a Route header, forwards the message to the address in the Request-URI in the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL →	→	CANCEL
	Apply post test routine		

TP number	IBCF_102_046	Reference	5.10.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in ACK		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the own network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the other network.		
SIP Parameter values	BYE 1:Route: <sip:[URI of IBCF]>;lr Route: <sip:[any URI]>;lr BYE 2:Route: <sip:[any URI]>;lr		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 1 ➔ ➔ BYE 2 **Apply post test routine**		

TP number	IBCF_102_047	Reference	5.10.2 [1]
TSS reference	Exit_Point/bcall		
Selection criteria			
Test Purpose name	BYE without Route header received		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the own network without a Route header, forwards the message to the address in the Request-URI in the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE ➔ ➔ BYE **Apply post test routine**		

6.1.3 Screening of SIP signalling

6.1.3.1 Basic call requirements

TP number	IBCF_103_001	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Accept header, ensure that an INVITE request is sent to the other network and the Accept header is present as received from the own network.		
SIP Parameter values	INVITE: Accept: multipart/mixed,application/sdp		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ➔ ➔ INVITE **Apply post test routine**		

TP number	IBCF_103_002	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Accept header, ensure that a 200 OK INVITE response is sent to the own network and the Accept header is present as received from the other network.		
SIP Parameter values	200 OK: Accept: application/sdp,text/plain		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_003	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Accept header, ensure that a BYE request is sent to the other network and the Accept header is present as received from the own network.		
SIP Parameter values	BYE: Accept: text/plain		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_004	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Accept-Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Accept-Contact header, ensure that an INVITE request is sent to the other network and the Accept-Contact header is present as received from the own network.		
SIP Parameter values	INVITE: Accept-Contact: * ;mobility="mobile";language="en,de"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_005	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Accept-Contact header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Accept-Contact header, ensure that a BYE request is sent to the other network and the Accept-Contact header is present as received from the own network.		
SIP Parameter values	BYE: Accept-Contact: *;mobility="fixed"; language="en,de"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_006	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Accept-Encoding header, ensure that an INVITE request is sent to the other network and the Accept-Encoding header is present as received from the own network.		
SIP Parameter values	INVITE: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_007	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Accept-Encoding header, ensure that a 200 OK INVITE response is sent to the own network and the Accept-Encoding header is present as received from the other network.		
SIP Parameter values	200 OK: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_008	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Accept-Encoding header, ensure that a BYE request is sent to the other network and the Accept-Encoding header is present as received from the own network.		
SIP Parameter values	BYE: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_009	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Accept-Language header, ensure that an INVITE request is sent to the other network and the Accept-Language header is present as received from the own network.		
SIP Parameter values	INVITE: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_010	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing an Accept-Language header, ensure that a 200 OK INVITE response is sent to the other network and the Accept-Language header is present as received from the own network.		
SIP Parameter values	200 OK: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_011	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Accept-Language header, ensure that a BYE request is sent to the other network and the Accept-Language header is present as received from the own network.		
SIP Parameter values	BYE: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_012	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Allow header, ensure that an INVITE request is sent to the other network and the Allow header is present as received from the own network.		
SIP Parameter values	INVITE: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_013	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing an Allow header, ensure that a 180 Ringing response is sent to the own network and the Allow header is present as received from the other network.		
SIP Parameter values	180: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_014	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Allow header, ensure that a 200 OK INVITE response is sent to the own network and the Allow header is present as received from the other network.		
SIP Parameter values	200 OK: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_015	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Allow header, ensure that a BYE request is sent to the other network and the Allow header is present as received from the own network.		
SIP Parameter values	BYE: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_016	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 and not PICS 7.1.1.2		
Test Purpose name	Allow header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing an Allow header, ensure that a 200 OK BYE response is sent to the own network and the Allow header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Allow: INVITE, ACK, CANCEL, OPTIONS, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_017	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Allow-Events header, ensure that an INVITE request is sent to the other network and the Allow-Events header is present as received from the own network.		
SIP Parameter values	INVITE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_018	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Allow-Events header, ensure that a 200 OK INVITE response is sent to the own network and the Allow-Events header is present as received from the other network.		
SIP Parameter values	200 OK: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_019	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing an Allow-Events header, ensure that a BYE request is sent to the other network and the Allow-Events header is present as received from the own network.		
SIP Parameter values	BYE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_020	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing an Allow-Events header, ensure that a 200 OK BYE response is sent to the own network and the Allow-Events header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_021	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Call-ID header, ensure that an INVITE request is sent to the other network and the Call-ID header is present as received from the own network.		
SIP Parameter values	INVITE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_022	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Call-ID header, ensure that a 180 Ringing response is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	180: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_023	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Call-ID header, ensure that a 200 OK INVITE response is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_024	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Call-ID header, ensure that an ACK request is sent to the other network and the Call-ID header is present as received from the own network.		
SIP Parameter values	ACK: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_025	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Call-ID header, ensure that a BYE request is sent to the other network and the Call-ID header is present as received from the own network.		
SIP Parameter values	BYE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_026	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Call-ID header, ensure that a 200 OK BYE response is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_027	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Call-Info header, ensure that an INVITE request is sent to the other network and the Call-Info header is present as received from the own network.		
SIP Parameter values	INVITE: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_028	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Call-Info header, ensure that a 180 Ringing response is sent to the own network and the Call-Info header is present as received from the other network.		
SIP Parameter values	180: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_029	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Call-Info header, ensure that a 200 OK INVITE response is sent to the own network and the Call-Info header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_030	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Contact header, ensure that an INVITE request is sent to the other network and the Contact header is present as received from the own network.		
SIP Parameter values	INVITE: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_031	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Contact header, ensure that a 180 Ringing response is sent to the own network and the Contact header is present as received from the other network.		
SIP Parameter values	180: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_032	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Contact header, ensure that a 200 OK INVITE response is sent to the own network and the Contact header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_033	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Contact header, ensure that an ACK request is sent to the other network and the Contact header is present as received from the own network.		
SIP Parameter values	ACK: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_036	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Content-Disposition header, ensure that an INVITE request is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_037	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Content-Disposition header, ensure that a 180 Ringing response is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	180: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_038	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Content-Disposition header, ensure that 200 OK INVITE response is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_039	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Content-Disposition header, ensure that an ACK request is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	ACK: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_040	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Content-Disposition header, ensure that a BYE request is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	BYE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_041	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Content-Disposition header, ensure that 200 OK BYE response is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_042	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Content-Encoding header, ensure that an INVITE request is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_043	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Content-Encoding header, ensure that a 180 Ringing response is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	180: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_044	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Content-Encoding header, ensure that a 200 OK INVITE response is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_045	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Content-Encoding header, ensure that an ACK request is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	ACK: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_046	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Content-Encoding header, ensure that a BYE request is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	BYE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_047	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Content-Encoding header, ensure that a 200 OK BYE response is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_048	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Content-Language header, ensure that an INVITE request is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_049	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Content-Language header, ensure that a 180 Ringing response is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	180: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_050	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Content-Language header, ensure that a 200 OK INVITE response is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_051	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Content-Language header, ensure that an ACK request is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	ACK: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_052	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Content-Language header, ensure that a BYE request is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	BYE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_053	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Content-Language header, ensure that a 200 OK BYE response is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_054	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Content-Length header, ensure that an INVITE request is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_055	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Content-Length header, ensure that a 180 Ringing response is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	INVITE: SDP 1 180: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_056	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Content-Length header, ensure that a 200 OK INVITE response is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	INVITE: SDP 1 200 OK INVITE: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_057	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Content-Length header, ensure that an ACK request is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	200 OK: SDP 1 ACK: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_058	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Content-Length header, ensure that a BYE request is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	BYE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_059	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Content-Length header, ensure that a 200 OK BYE response is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_060	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Content-Type header, ensure that an INVITE request is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_061	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Content-Type header, ensure that a 180 Ringing response is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	180: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_062	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 200 OKINVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Content-Type header, ensure that a 200 OK INVITE response is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_063	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Content-Type header, ensure that an ACK request is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	ACK: Content-Type: text plain		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_064	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Content-Type header, ensure that a BYE request is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	BYE: Content-Type: text plain		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_065	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Content-Type header, ensure that a 200 OK BYE response is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Content-Type: text plain		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_066	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Cseq header, ensure that an INVITE request is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	INVITE: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_067	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Cseq header, ensure that a 180 Ringing response is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	180: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_068	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Cseq header, ensure that a 200 OK INVITE response is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_069	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Cseq header, ensure that an ACK request is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	ACK: Cseq: [any value] ACK		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_070	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in BYE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Cseq header, ensure that an INVITE request is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	BYE: Cseq: [any value] BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_071	Reference	Annex A/ [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Cseq header, ensure that a 200 OK BYE response is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Cseq: [any value] BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_072	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Date header, ensure that an INVITE request is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	INVITE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_073	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Date header, ensure that a 180 Ringing response is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	180: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_074	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Date header, ensure that a 200 OK INVITE response is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_075	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Date, ensure that an ACK request is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	ACK: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK		ACK
	Apply post test routine		

TP number	IBCF_103_076	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Date, ensure that a BYE request is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	BYE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_077	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Date header, ensure that a 200 OK BYE response is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_078	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Expires header, ensure that an INVITE request is sent to the other network and the Expires header is present as received from the own network.		
SIP Parameter values	INVITE: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_079	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing an Expires header, ensure that a 180 Ringing response is sent to the own network and the Expires header is present as received from the other network.		
SIP Parameter values	180: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_080	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Expires header, ensure that a 200 OK INVITE response is sent to the own network and the Expires header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_081	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Event header supported in SUBCRIBE		
Test Purpose	When the IBCF receives a SUBSRIBE request from the own network containing an Event header, ensure that a SUBSCRIBE request is sent to the other network and the Event header is present as received from the own network.		
SIP Parameter values	SUBSRIBE: Event: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBSRIBE →	→	SUBSRIBE
	Apply post test routine		

TP number	IBCF_103_082	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Event header supported in NOTIFY		
Test Purpose	When the IBCF receives a NOTIFY request from the own network containing an Event header, ensure that a NOTIFY request is sent to the other network and the Event header is present as received from the own network.		
SIP Parameter values	NOTIFY: Event: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY →	→	NOTIFY
	Apply post test routine		

TP number	IBCF_103_083	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a From header, ensure that an INVITE request is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	INVITE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_084	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a From header, ensure that a 180 Ringing response is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	180: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_085	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a From header, ensure that a 200 OK INVITE response is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_086	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a From header, ensure that an ACK request is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	ACK: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_087	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a From header, ensure that a BYE request is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	BYE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_088	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a From header, ensure that a 200 OK BYE response is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	200 OK BYE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_089	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Geolocation header, ensure that an INVITE request is sent to the other network and the Geolocation header is present as received from the own network.		
SIP Parameter values	INVITE: Geolocation: <sip:[any URI]>; inserted-by=[any host-ID value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
		Apply post test routine	

TP number	IBCF_103_090	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Geolocation header, ensure that a BYE request is sent to the other network and the Geolocation header is present as received from the own network.		
SIP Parameter values	BYE: Geolocation: <sip:[any URI]>; inserted-by=[any host-ID value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
		Apply post test routine	

TP number	IBCF_103_091	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Geolocation-Error header, ensure that a 180 Ringing response is sent to the own network and the Geolocation-Error header is not present.		
SIP Parameter values	180: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
		Apply post test routine	

TP number	IBCF_103_092	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Geolocation-Error header, ensure that a 200 OK INVITE response is sent to the own network and the Geolocation-Error header is not present.		
SIP Parameter values	200 OK INVITE: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_093	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Geolocation-Error header, ensure that a BYE request is sent to the other network and the Geolocation-Error header is not present.		
SIP Parameter values	200 OK BYE: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_094	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Max-Breadth header, ensure that an INVITE request is sent to the other network and the Max-Breadth header is not present.		
SIP Parameter values	INVITE 1: Max-Breadth: 10 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_103_095	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Max-Breadth header, ensure that an ACK request is sent to the other network and the Max-Breadth header is not present.		
SIP Parameter values	ACK 1: Max-Breadth: 10 ACK 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_103_096	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Max-Breadth header, ensure that a BYE request is sent to the other network and the Max-Breadth header is not present as received from the own network.		
SIP Parameter values	BYE 1:Max-Breadth: 10 BYE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE 1 →	→	BYE 2
	Apply post test routine		

TP number	IBCF_103_097	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Max-Forwards header, ensure that an INVITE request is sent to the other network and the Max-Forwards header is present as received from the own network.		
SIP Parameter values	INVITE: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_098	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Max-Forwards header, ensure that an ACK request is sent to the other network and the Max-Forwards header is present as received from the own network.		
SIP Parameter values	ACK: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_099	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Max-Forwards header, ensure that a BYE request is sent to the other network and the Max-Forwards header is present as received from the own network.		
SIP Parameter values	BYE: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	Apply post test routine		

TP number	IBCF_103_100	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/3		
Test Purpose name	Min-Expires header supported		
Test Purpose	When the IBCF receives a 423 Interval Too Brief response from the other (home) network containing a Min-Expires header upon sent a REGISTER request to the other (home) network, ensure that the 423 Interval Too Brief response is sent to the own (visited) network and the Min-Expires header is present as received from the other network.		
SIP Parameter values	423: Min-Expires: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
	423 Interval Too Brief ←	←	423 Interval Too Brief

TP number	IBCF_103_101	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing an Organization header, ensure that an INVITE request is sent to the other network and the Organization header is present as received from the own network.		
SIP Parameter values	INVITE: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_102	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing an Organization header, ensure that a 180 Ringing response is sent to the own network and the Organization header is present as received from the other network.		
SIP Parameter values	180: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_103	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Organization header, ensure that a 200 OK INVITE response is sent to the own network and the Organization header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_104	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is supported in 180		
Test Purpose	When the IBCF sends a 180 Ringing response to the own network, ensure that the P-Charging-Vector is present as received from the other network.		
SIP Parameter values	180: P-Charging-Vector: icid-value; orig-ioi; term-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_105	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is supported in 200 OK INVITE		
Test Purpose	When the IBCF sends a 200 OK INVITE response to the own network, ensure that the P-Charging-Vector is present as received from the other network.		
SIP Parameter values	200 OK INVITE: P-Charging-Vector: icid-value; orig-ioi; term-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_106	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is not supported in 180		
Test Purpose	When the IBCF sends a 180 Ringing response to the own network, ensure that the P-Charging-Vector is not present.		
SIP Parameter values	180 1: P-Charging-Vector: icid-value; orig-ioi; term-ioi 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_103_107	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is not supported in 200 OK INVITE		
Test Purpose	When the IBCF sends a 200 OK INVITE response to the own network, ensure that the P-Charging-Vector is not present.		
SIP Parameter values	200 OK INVITE 1: P-Charging-Vector: icid-value; orig-ioi; term-ioi 200 OK INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_103_108	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-Media-Authorization header, ensure that an INVITE request is sent to the other network and the P-Media-Authorization header is not present.		
SIP Parameter values	INVITE 1: P-Media-Authorization: 001d56ad781f INVITE 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_103_109	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in 183		
Test Purpose	When the IBCF receives a 183 Session Progress response from the other network containing a P-Media-Authorization header, ensure that a 183 Session Progress response is sent to the own network and the P-Media-Authorization header is not present.		
SIP Parameter values	183 1: P-Media-Authorization: 001d56ad781f 183 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	183 Session Progress 2 ←	←	183 Session Progress 1
	Apply post test routine		

TP number	IBCF_103_110	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a P-Media-Authorization header, ensure that a 200 OK INVITE response is sent to the own network and the P-Media-Authorization header is not present.		
SIP Parameter values	200 OK INVITE 1: P-Media-Authorization: 001d56ad781f 200 OK INVITE 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	183 Session Progress ←	←	183 Session Progress
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_103_111	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-Preferred-Identity header, ensure that an INVITE request is sent to the other network and the P-Preferred-Identity header is not present.		
SIP Parameter values	INVITE 1: P-Preferred-Identity: <[any URI]> INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_103_112	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a P-Preferred-Identity header, ensure that a 180 Ringing response is sent to the own network and the P-Preferred-Identity header is not present.		
SIP Parameter values	180 1: P-Preferred-Identity: <[any URI]> 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_103_113	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a P-Preferred-Identity header, ensure that a 200 OK INVITE response is sent to the own network and the P-Preferred-Identity header is not present.		
SIP Parameter values	200 OK INVITE 1: P-Preferred-Identity: <[any URI]> 200 OK INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_103_114	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Service header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-Preferred-Service header, ensure that an INVITE request is sent to the other network and the P-Preferred-Service header is not present.		
SIP Parameter values	INVITE 1: P-Preferred-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_103_115	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-User-Database header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-User-Database header, ensure that an INVITE request is sent to the other network and the P-User-Database header is not present.		
SIP Parameter values	INVITE1: P-User-Database: <[any DiameterURI]> INVITE2:		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE1 → → INVITE2 **Apply post test routine**		

TP number	IBCF_103_116	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/14		
Test Purpose name	P-User-Database header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the own network containing a P-User-Database header, ensure that a REGISTER request is sent to the other network and the P-User-Database header is not present.		
SIP Parameter values	REGISTER: P-User-Database: <[any DiameterURI]>		
Comments			
Message flows	**Mx** **SUT** **Ic** REGISTER → → REGISTER **Apply post test routine**		

TP number	IBCF_103_117	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/15		
Test Purpose name	P-Visited-Network-ID header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-Visited-Network-ID-Service header, ensure that an INVITE request is sent to the other network and the P-Visited-Network-ID header is present as received from the own network.		
SIP Parameter values	INVITE: P-Visited-Network-ID: "Visited network number 1"		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_103_118	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/15		
Test Purpose name	P-Visited-Network-ID header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the own network containing a P-Visited-Network-ID header, ensure that a REGISTER request is sent to the other network and the P-Visited-Network-ID header is present as received from the own network.		
SIP Parameter values	REGISTER: P-Visited-Network-ID: "Visited network number 1"		
Comments			
Message flows	**Mx** **SUT** **Ic** REGISTER → → REGISTER **Apply post test routine**		

TP number	IBCF_103_119	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1		
Test Purpose name	P-Visited-Network-ID header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a P-Visited-Network-ID header, ensure that an INVITE request is sent to the other network and the P-Visited-Network-ID header is not present.		
SIP Parameter values	INVITE 1: P-Visited-Network-ID: "Visited network number 1" INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_103_120	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Proxy-Require header, ensure that an INVITE request is sent to the other network and the Proxy-Require header is present as received from the own network.		
SIP Parameter values	INVITE: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_121	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Proxy-Require header, ensure that an ACK request is sent to the other network and the Proxy-Require header is present as received from the own network.		
SIP Parameter values	ACK: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_122	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in BYE		
Test Purpose	When the IBCF receives an BYE request from the own network containing a Proxy-Require header, ensure that an BYE request is sent to the other network and the Proxy-Require header is present as received from the own network		
SIP Parameter values	BYE: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_123	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Proxy-Require header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the own network containing a Proxy-Require header, ensure that a REGISTER request is sent to the other network and the Proxy-Require header is present as received from the own network.		
SIP Parameter values	REGISTER: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →	→	REGISTER
	Apply post test routine		

TP number	IBCF_103_124	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Reject-Contact header, ensure that an INVITE request is sent to the other network and the Reject-Contact header is present as received from the own network.		
SIP Parameter values	INVITE: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_125	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Reject-Contact header, ensure that an ACK request is sent to the other network and the Reject-Contact header is present as received from the own network.		
SIP Parameter values	ACK: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_126	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Reject-Contact header, ensure that a BYE request is sent to the other network and the Reject-Contact header is present as received from the own network.		
SIP Parameter values	BYE: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_127	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Request-Disposition header, ensure that an INVITE request is sent to the other network and the Request-Disposition header is present as received from the own network.		
SIP Parameter values	INVITE: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_128	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Request-Disposition header, ensure that an ACK request is sent to the other network and the Request-Disposition header is present as received from the own network.		
SIP Parameter values	ACK: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_129	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Request-Disposition header, ensure that a BYE request is sent to the other network and the Request-Disposition header is present as received from the own network.		
SIP Parameter values	BYE: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_130	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Require header, ensure that an INVITE request is sent to the other network and the Require header is present as received from the own network.		
SIP Parameter values	INVITE: Require: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_131	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Require header, ensure that a 180 Ringing response is sent to the own network and the Require header is present as received from the other network.		
SIP Parameter values	180: Require: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_132	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Require header, ensure that a 200 OK INVITE response is sent to the own network and the Require header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_134	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Require header, ensure that a BYE request is sent to the other network and the Require header is present as received from the own network.		
SIP Parameter values	BYE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_135	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 and not PICS 7.1.1.2		
Test Purpose name	Require header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Require header, ensure that a 200 OK BYE response is sent to the own network and the Require header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_136	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Client header not supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the own (visited) network containing a Security-Client header, ensure that a REGISTER request is sent to the other (home) network and the Security-Client header is not present.		
SIP Parameter values	REGISTER 1: Security-Client: tls REGISTER 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** REGISTER 1 → → REGISTER 2 **Apply post test routine**		

TP number	IBCF_103_137	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Server header not supported in 200 OK REGISTER		
Test Purpose	When the IBCF receives a 200 OK REGISTER response from the other (home) network containing a Security-Server header, ensure that a 200 OK REGISTER response is sent to the own (visited) network and the Security-Server header is not present.		
SIP Parameter values	200 OK 1: Security-Server: tls;q=0.2 200 OK 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** REGISTER → → REGISTER 200 OK REGISTER 2 ← ← 200 OK REGISTER 1 **Apply post test routine**		

TP number	IBCF_103_138	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Verify header not supported		
Test Purpose	When the IBCF receives an INVITE request from the own (visited) network containing a Security-Verify header, ensure that an INVITE request is sent to the other (home) network and the Security-Verify header is not present.		
SIP Parameter values	INVITE 1: Security-Verify: tls;q=0.2 INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_103_139	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/16		
Test Purpose name	Session-Expires header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Session-Expires header, ensure that an INVITE request is sent to the other network and the Session-Expires header is present as received from the own network.		
SIP Parameter values	INVITE: Session-Expires:		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_103_140	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/16		
Test Purpose name	Session-Expires header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE request from the other network containing a Session-Expires header, ensure that a 200 OK INVITE request is sent to the own network and the Session-Expires header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Session-Expires: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_141	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Supported header, ensure that an INVITE request is sent to the other network and the Supported header is present as received from the own network.		
SIP Parameter values	INVITE: Supported: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_142	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Supported header, ensure that a 200 OK INVITE response is sent to the own network and the Supported header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Supported: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_143	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a Supported header, ensure that a BYE request is sent to the other network and the Supported header is optional as received from the own network.		
SIP Parameter values	BYE: Supported: timer or BYE: without Supported header		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_145	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Timestamp header, ensure that an INVITE request is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	INVITE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_146	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a Timestamp header, ensure that a 180 Ringing response is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	180: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_147	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a Timestamp header, ensure that a 200 OK INVITE response is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_148	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a Timestamp header, ensure that an ACK request is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	ACK: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	→	→	ACK
	Apply post test routine		

TP number	IBCF_103_149	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in BYE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Timestamp header, ensure that an INVITE request is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	BYE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_150	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 and not PICS 7.1.1.2		
Test Purpose name	Timestamp header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a Timestamp header, ensure that a 200 OK BYE response is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	200 OK BYE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_151	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a To header, ensure that an INVITE request is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	INVITE: To: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_152	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a To header, ensure that a 180 Ringing response is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	180: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_153	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a To header, ensure that a 200 OK INVITE response is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_154	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a To header, ensure that an ACK request is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	ACK: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_155	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a To header, ensure that a BYE request is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	BYE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_156	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a To header, ensure that a 200 OK BYE response is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	200 OK BYE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_157	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/20		
Test Purpose name	Trigger-Consent header supported		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a Trigger-Consent header, ensure that an INVITE request is sent to the other network and the Trigger-Consent header is present as received from the own network.		
SIP Parameter values	INVITE: Trigger-Consent:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_158	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Unsupported header supported		
Test Purpose	When the IBCF receives a 420 Bad Extension response from the own network containing an Unsupported header, ensure that a 420 Bad Extension response is sent to the other network and the Unsupported header is present as received from the own network.		
SIP Parameter values	420: Unsupported: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	420 Bad Extension ←	←	420 Bad Extension
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_159	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a User-Agent header, ensure that an INVITE request is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	INVITE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_103_160	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a User-Agent header, ensure that a 180 Ringing response is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	180: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_161	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a User-Agent header, ensure that a 200 OK INVITE response is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_162	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the own network containing a User-Agent header, ensure that an ACK request is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	ACK: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_103_163	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a User-Agent header, ensure that a BYE request is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	BYE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_164	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/2 AND PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a User-Agent header, ensure that a 200 OK BYE response is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	200 OK BYE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_103_165	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a User-to-User header, ensure that an INVITE request is sent to the other network and the User-to-User header is present as received from the own network.		
SIP Parameter values	INVITE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_103_166	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network containing a User-to-User header, ensure that a 180 Ringing response is sent to the own network and the User-to-User header is present as received from the other network.		
SIP Parameter values	180: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_103_167	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing a User-to-User header, ensure that a 200 OK INVITE response is sent to the own network and the User-to-User header is present as received from the other network.		
SIP Parameter values	200 OK INVITE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_103_168	Reference	Annex A [3]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the own network containing a User-to-User header, ensure that a BYE request is sent to the other network and the User-to-User header is present as received from the own network.		
SIP Parameter values	BYE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	Apply post test routine		

TP number	IBCF_103_169	**Reference**	Annex A [**3**]
TSS reference	Exit_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other network containing a User-to-User header, ensure that a 200 OK BYE response is sent to the own network and the User-to-User header is present as received from the other network.		
SIP Parameter values	200 OK BYE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

6.1.3.2 Simulation services

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

TP number	IBCF_104_001	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**]
TSS reference	Exit_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	The IBCF leaves the P-Asserted-Identity header field set to the public user identity and Privacy id in the request for outgoing requests		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Asserted-Identity and a Privacy header value 'id' is present, it leaves the P-Asserted-Identity header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: *P-Asserted-Identity <URI>* Privacy: id INVITE 2: P-Asserted-Identity <URI> Privacy: id		
Comments			
Message flows	**Mx/Gm**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_104_002	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**]
TSS reference	Exit_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity and no Privacy present in the request for outgoing requests*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Asserted-Identity and no Privacy header is present, it leaves the P-Asserted-Identity header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> INVITE 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_104_003	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**]
TSS reference	Exit_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity and Privacy id from the request*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Asserted-Identity and a Privacy header value 'id' is present, it removes the P-Asserted-Identity header fields from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> Privacy: id INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_104_004	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**]
TSS reference	Exit_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the request no Privacy requested*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a P-Asserted-Identity and **no Privacy header is present**, the IBCF leaves the received P-Asserted-Identity header field.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> INVITE 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

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

TP number	IBCF_105_001	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**], 7.2.2 [**17**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	The P-Asserted-Identity is passed in the 180 response		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from a trusted network upon sent an initial INVITE request and there is a P-Asserted-Identity header field present and no Privacy header is present, the IBCF it leaves the P-Asserted-Identity header fields in the SIP response.		
SIP Parameter values	180 1: P-Asserted-Identity 180 2: P-Asserted-Identity		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_105_002	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**], 7.2.2 [**17**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	The P-Asserted-Identity is passed in the 200 OK response		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from a trusted network upon sent an initial INVITE request and there is a P-Asserted-Identity header field present and no Privacy header is present, the IBCF it leaves the P-Asserted-Identity header fields in the SIP response.		
SIP Parameter values	200 1: P-Asserted-Identity 200 2: P-Asserted-Identity		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_105_003	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**], 7.2.2 [**17**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	The P-Asserted-Identity is replaced or omitted in the 180 response		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from an untrusted network upon sent an initial INVITE request and there is a P-Asserted-Identity header field present and **no Privacy header is present**, the IBCF replaces the header field with a single SIP or SIPS or tel URI or remove the received P-Asserted-Identity header field from the response.		
SIP Parameter values	180 1: P-Asserted-Identity 180 2: P-Asserted-Identity <single SIP, SIPS or tel URI> **or** no P-Asserted-Identity present		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_105_004	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**16**], 7.2.2 [**17**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	The P-Asserted-Identity is replaced or omitted in the 200 OK response		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from an untrusted network upon sent an initial INVITE request and there is a P-Asserted-Identity header field present and **no Privacy header is present**, the IBCF replaces the header field with a single SIP or SIPS or tel URI or remove the received P-Asserted-Identity header field from the response.		
SIP Parameter values	200 1: P-Asserted-Identity 200 2: P-Asserted-Identity <single SIP, SIPS or tel URI> **or** no P-Asserted-Identity present		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_105_005	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/2		
Test Purpose name	INVITE 'from-change' tag in Supported header supported		
Test Purpose	When the IBCF receives an INVITE request from the own network and the 'from-change' tag is contained in the Supported header, an INVITE is sent to the other network and the 'from-change' tag present in the supported header.		
SIP Parameter values	INVITE 1: Supported: from-change INVITE 2: Supported: from-change		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_105_006	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/2		
Test Purpose name	200 OK 'from-change' tag in Supported header supported		
Test Purpose	When the IBCF receives a 200 OK INVITE request from the other network and the 'from-change' tag is contained in the Supported header, a 200 OK INVITE request is sent to the own network and the 'from-change' tag is present in the supported header. Ensure that the changed From header value in the UPDATE request is passed unchanged.		
SIP Parameter values	200 OK 1: Supported: from-change 200 OK 2: Supported: from-change UPDATE 1: From: <changed From header value> UPDATE 2: From: <changed From header value>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	ACK →	→	ACK
	UPDATE 2 ←	←	UPDATE 1
	200 OK UPDATE →	→	200 OK UPDATE
	Apply post test routine		

6.1.3.2.3 Communication Diversion service

TP number	IBCF_106_001	**Reference**	4.4.4 [**1**], 4.3.3.1.1 [**15**]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header without Privacy header is passed in the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a no Privacy header is present, it leaves the History-Info header field in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: History-Info		
Comments	INVITE 2: History-Info		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_106_002	Reference	4.4.4 [**1**], 4.3.3.1.1 [**15**]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header with Privacy history is passed in the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Privacy header value history is present, it leaves the History-Info header field in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: History-Info Privacy: history		
Comments	INVITE 2: History-Info Privacy: history		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_106_003	Reference	4.4.4 [**1**], 4.3.3.1.1 [**15**]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header with escaped Privacy header is passed in the INVITE		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Privacy header value history is escaped in any hi-entry, it leaves the hi-entry in the History-Info header field in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	INVITE 2: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_106_004	Reference	4.4.2 [**1**], 4.3.3.1.1 [**15**]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header is passed into an untrusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a no Privacy header, it leaves the History-Info header field in the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: History-Info		
Comments	INVITE 2: History-Info		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_106_005	Reference	4.4.2 [1], 4.3.3.1.1 [15]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header and Privacy headers are omitted into an untrusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Privacy header value history is present, it removes the History-Info header field from the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: History-Info Privacy: history		
Comments	INVITE 2: no History-Info present		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_106_006	Reference	4.4.2 [1], 4.3.3.1.1 [15]
TSS reference	Exit_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	The History-Info header with escaped Privacy header is omitted into an untrusted network		
Test Purpose	When an IBCF receives an initial SIP INVITE request from within its own network and a Privacy header value history is escaped in any hi-entry, it removes this specific hi-entry from the History-Info header field in the SIP requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	INVITE 1: History-Info: <*hi-targeted-to-uri 2*>; index=1.1		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 100 Trying ← **Apply post test routine**		

6.1.3.2.4 Other Simulation services

TP number	IBCF_107_001	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/17 AND PICS 7.2.3/4		
Test Purpose name	INFO request containing the "application/vnd.etsi.mcid+xml" request MIME body supported		
Test Purpose	When the IBCF receives an INFO request from the other network the Content-Type is set to 'application/vnd.etsi.mcid+xml' and a MCID XML request body is present, an INFO request is sent to the own network. The Content-type is set to 'application/vnd.etsi.mcid+xml' and the received MCID XML body is present.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.mcid+xml <?xml version="1.0" mcid request McidRequestIndicator>1< HoldingIndicator>1<		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing INFO ← ← INFO 200 OK INFO → → 200 OK INFO **Apply post test routine**		

TP number	IBCF_107_002	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/17 AND PICS 7.2.3/4		
Test Purpose name	INFO request containing the "application/vnd.etsi.mcid+xml" response MIME body supported		
Test Purpose	When the IBCF receives an INFO request from the own network the Content-Type is set to 'application/vnd.etsi.mcid+xml' and a MCID XML response body is present, an INFO request is sent to the other network. The Content-type is set to 'application/vnd.etsi.mcid+xml' and the received MCID XML body is present.		
SIP Parameter values	INFO 2: Content-Type: application/vnd.etsi.mcid+xml <?xml version="1.0" mcid response McidResponseIndicator>1< HoldingProvidedIndicator>1< OrigPartyIdentity>[any URI]<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	INFO ←	←	INFO
	200 OK INFO 1 →	→	200 OK INFO 1
	INFO 1 →	→	INFO 2
	200 OK INFO 2 ←	←	200 OK INFO 2
	Apply post test routine		

TP number	IBCF_107_003	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/5		
Test Purpose name	Privacy value 'id' and 433 Anonymity Disallowed response supported		
Test Purpose	When an IBCF receives a P-Asserted-Identity and the Privacy header is set to 'id' from the own network, an INVITE request is sent to the other network containing the P-Asserted-Identity header and the Privacy header. The received 433 Anonymity Disallowed final response from the other network is sent into the own network.		
SIP Parameter values	INVITE: P-Asserted-Identity Privacy: id		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	433 Anonymity Disallowed ←	←	433 Anonymity Disallowed
	ACK →	→	ACK

TP number	IBCF_107_004	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/6		
Test Purpose name	Alert-Info header supported		
Test Purpose	When the IBCF receives a 180 Ringing from the other network containing an Alert-Info header set to 'urn:alert:service:call-waiting' a 180 Ringing response is sent to the own network and the received Alert-Info header is present.		
SIP Parameter values	180 1: Alert-Info: <urn:alert:service:call-waiting>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_107_005	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/6		
Test Purpose name	INVITE containing a CW XML body supported		
Test Purpose	When the IBCF receives an INVITE request from the own network and a CW XML MIME body is attached, an INVITE request is sent to the other network containing the received CW XML MIME body.		
SIP Parameter values	INVITE: Content-Type: application/vnd.3gpp.cw+xml <?xml version="1.0" ims-cw communication-waiting-indication		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_107_006	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/19 AND PICS 7.2.3/6		
Test Purpose name	480 containing Reason cause 19 supported		
Test Purpose	When the IBCF receives a 480 Temporarily Unavailable final response from the other network and a Reason header cause value set to #19 is present, a 480 Temporarily Unavailable is sent to the own network containing the received Reason header.		
SIP Parameter values	480: Reason: Q.850: cause=19		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE 1 → → INVITE 2 480 Temporarily Unavailable ← ← 480 Temporarily Unavailable ACK → → ACK		

TP number	IBCF_107_007	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/7		
Test Purpose name	INVITE request to suspend and retrieve a session is supported		
Test Purpose	When the IBCF receives an INVITE request from the own network while an active session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendonly', an INVITE request is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendonly' The 200 OK INVITE received from the other network the version parameter of the o line is incremented and the a attribute of the m line is set to 'recvonly' is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'recvonly' When the IBCF receives an INVITE request from the own network while an suspended session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendrecv', an INVITE request is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv' The 200 OK INVITE received from the other network the version parameter of the o line is incremented and the a attribute of the m line is set to 'sendrecv' is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv'.		
SIP Parameter values	INVITE 1: SDP o line: version number incremented a=sendonly INVITE 2: SDP o line: version number incremented a=sendrecv		
Comments			
Message flows	**Mx** **SUT** **Ic** **An active session is already established** INVITE 1 → → INVITE 1 200 OK INVITE ← ← 200 OK INVITE ACK → → ACK INVITE 2 → → INVITE 2 200 OK INVITE ← ← 200 OK INVITE ACK → → ACK **Apply post test routine**		

TP number	IBCF_107_008	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/7		
Test Purpose name	UPDATE request to suspend and retrieve a session is supported		
Test Purpose	When the IBCF receives an UPDATE request from the own network while an active session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendonly', an UPDATE request is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendonly' The 200 OK UPDATE received from the other network the version parameter of the o line is incremented and the a attribute of the m line is set to 'recvonly' is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'recvonly' When the IBCF receives an UPDATE request from the own network while an suspended session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendrecv', an UPDATE request is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv' The 200 OK UPDATE received from the other network the version parameter of the o line is incremented and the a attribute of the m line is set to 'sendrecv' is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv'		
SIP Parameter values	UPDATE 1: SDP o line: version number incremented a=sendonly UPDATE 2: SDP o line: version number incremented a=sendrecv		
Comments			
Message flows	**Mx** **SUT** **Ic** **An active session is already established** UPDATE 1 → → UPDATE 1 200 OK UPDATE ← ← 200 OK UPDATE UPDATE 2 → → UPDATE 2 200 OK UPDATE ← ← 200 OK UPDATE **Apply post test routine**		

TP number	IBCF_107_009	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/8		
Test Purpose name	SUBSCRIBE with 'message-summary' event package supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the own network the: • Event header is set to 'message-summary' • Expires header set to '7200' • Accept header set to 'application/simple-message-summary' A SUBCRIBE is sent to the other network containing the MWI related headers as received from the own network.		
SIP Parameter values	SUBCRIBE: Event: message-summary Expires: 7200 Accept: application/simple-message-summary		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBCRIBE →	→	SUBCRIBE
	200 OK SUBCRIBE/ 202 Accepted ←	←	200 OK SUBCRIBE/ 202 Accepted

TP number	IBCF_107_010	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/8		
Test Purpose name	NOTIFY with message summary MIME body supported		
Test Purpose	When the IBCF receives a NOTIFY request from the own network the: • Event header set to 'message-summary' • Subscription-State header set to 'active' expires parameter set to '7200' • Content-Type header set to 'application/simple-message-summary' • MIME body set to 'Messages-Waiting: yes' A NOTIFY is sent to the other network containing the MWI related headers and MIME body as received from the own network.		
SIP Parameter values	NOTIFY: Event: message-summary Subscription-State: active; expires=7200 Content-Type: application/simple-message-summary Messages-Waiting: yes		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY →	→	NOTIFY
	200 OK NOTIFY ←	←	200 OK NOTIFY

TP number	IBCF_107_011	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/9		
Test Purpose name	603 containing a Reason header in case of ICB received		
Test Purpose	When the IBCF receives a 603 Decline final response from the other network, a 603 Decline is sent to the own network containing the received Reason header.		
SIP Parameter values	603: Reason		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	603 Decline ←	←	603 Decline
	ACK →	→	ACK

TP number	IBCF_107_012	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/9		
Test Purpose name	603 containing a Reason header in case of OCB received		
Test Purpose	When the IBCF receives a 603 Decline final response from the other network, a 603 Decline is sent to the own network containing the received Reason header.		
SIP Parameter values	603: Reason		
Comments			
Message flows	Mx	SUT	Ic
	INVITE →	→	INVITE
	603 Decline ←	←	603 Decline
	ACK →	→	ACK

TP number	IBCF_107_013	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND PICS 7.2.3/10		
Test Purpose name	486 containing a Call-Info header is supported		
Test Purpose	When the IBCF receives a 486 Busy Here final response containing a Call-Info header with purpose parameter set to 'call-completion' and m parameter set to 'BS' from the other network ensure that a 486 Busy Here final response is sent to the own network containing the received Call-Info header.		
SIP Parameter values	486: Call-Info: <sip:[any URI]>;purpose=call-completion;m=BS		
Comments			
Message flows	Mx	SUT	Ic
	INVITE →	→	INVITE
	486 Busy Here ←	←	486 Busy Here
	ACK →	→	ACK

TP number	IBCF_107_014	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND PICS 7.2.3/11		
Test Purpose name	180 containing a Call-Info header is supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response containing a Call-Info header with purpose parameter set to 'call-completion' and m parameter set to 'BS' from the other network ensure that a 180 Ringing provisional response is sent to the own network containing the received Call-Info header.		
SIP Parameter values	180: Call-Info: <sip:[any URI]>;purpose=call-completion;m=BS		
Comments			
Message flows	Mx	SUT	Ic
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_107_015	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	199 response is supported		
Test Purpose	When the IBCF receives a 199 Early Dialog Terminated provisional response from the other network in early dialogue ensure that the 199 Early Dialog Terminated is sent to the own network.		
SIP Parameter values			
Comments			
Message flows	Mx	SUT	Ic
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	199 Early Dialog Terminated ←	←	199 Early Dialog Terminated
	Apply post test routine		

TP number	IBCF_107_016	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	SUBSCRIBE and NOTIFY for Call Completion is supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the own network and the • Call-Info header purpose parameter is set to 'call-completion' and the m parameter is set to 'BS' or 'NR' • Event header is set to 'call-completion' ensure that a SUBSCRIBE request is sent to the other network containing the received Call-Info and Event header. When the IBCF receives a NOTIFY request from the other network and the • Event header is set to call-completion • Content-Type header is set to application/call-completion • cc-state MIME parameter is set to queued • cc-service-retention MIME parameter is set to true ensure that a NOTIFY request is sent to the own network containing the Event header and the 'cc-' MIME body as received from the other network.		
SIP Parameter values	SUBSCRIBE: Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS or m=NR Event: call-completion NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: queued cc-service-retention: true		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBSCRIBE →	→	SUBSCRIBE
	202 Accepted ←	←	202 Accepted
	NOTIFY ←	←	NOTIFY
	200 OK NOTIFY →	→	200 OK NOTIFY

TP number	IBCF_107_017	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	NOTIFY for Call Completion is supported		
Test Purpose	When the IBCF receives a NOTIFY request from the own network and the • Event header is set to 'call-completion' • Content-Type header is set to 'application/call-completion' • cc-state MIME parameter is set to 'ready' **or** 'Subscription-State MIME parameter is set to 'terminated; reason=noresource' ensure that a NOTIFY request is sent to the other network containing the Event header and the 'cc-' MIME body as received from the own network.		
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: ready or Subscription-State: terminated; reason=noresource		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY →	→	NOTIFY
	200 OK NOTIFY ←	←	200 OK NOTIFY

TP number	IBCF_107_018	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	PUBLISH for Call Completion is supported		
Test Purpose	When the IBCF receives a PUBLISH request from the own network and the • Event header is set to presence • Call-Info header purpose parameter is set to 'call-completion' and the m parameter is set to 'BS' **or** 'NR' • Content-Type header is set to application/pidf+xml • XML MIME body with element 'presence' and status/basic element set to 'closed' **or** 'open' ensure that a PUBLISH request is sent to the other network containing the Call-Info header and the presence MIME body as received from the own network.		
SIP Parameter values	PUBLISH: Event: presence Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS **or** m=NR Content-Type: application/pidf+xml <?xml version="1.0" encoding="UTF-8"?> <presence <status> <basic>closed</basic> **or** <basic>open</basic>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	PUBLISH →	→	PUBLISH
	200 OK PUBLISH ←	←	200 OK PUBLISH

TP number	IBCF_107_019	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	INVITE with Call Completion information is supported		
Test Purpose	When the IBCF receives an INVITE request from the own network and a m parameter set to 'BS' or 'NR' is present in the request line and a Call-Info header containing a purpose parameter set to 'call-completion' and a m parameter set to 'BS' or 'NR', ensure that an INVITE request is sent to the other network, the m parameter in the request line and the Call-Info header is present as received from the own network.		
SIP Parameter values	INVITE: Request Line URI;m=BS **or** m=NR Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS **or** m=NR		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_107_020	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND PICS 7.2.3/20		
Test Purpose name	Support of REFER with Referred-By header and Replaces header		
Test Purpose	When the IBCF receives a REFER request in an active session from the own network and a Refer-To header containing a Replaces header and a Referred-By header is present, a REFER request is sent to the other network containing the Refer-To header and Referred-By header as received from the own network.		
SIP Parameter values	REFER: Refer-To: [any URI];method=invite?Replaces=[any dialogue identifier value] Referred-By: [any URI]		
Comments	An active session is already established.		
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	REFER →	→	REFER
	202 Accepted ←	←	202 Accepted
	Apply post test routine		

TP number	IBCF_107_020A	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND NOT PICS 7.2.3/20		
Test Purpose name	No support of REFER method		
Test Purpose	When the IBCF receives a REFER request in an active session from the own network the IBCF sends a **403 Forbidden** or **501 Not implemented** unsuccessful final response to the own network.		
SIP Parameter values	REFER: Refer-To: [any URI];method=invite?Replaces=[any dialogue identifier value] Referred-By: [any URI]		
Comments	An active session is already established.		
Message flows	**Mx** **SUT** **Ic** **A session is already established** REFER → **CASE A** 405 Method not allowed ← **CASE B** 500 Server Internal Error ← **CASE C** 501 Not implemented ← **CASE D** 403 Forbidden ← **Apply post test routine**		

TP number	IBCF_107_021	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND PICS 7.2.3/20		
Test Purpose name	Support of NOTIFY with 'application/sipfrag' MIME body		
Test Purpose	When the IBCF receives a NOTIFY request from the own network and a sipfrag MIME body is present a NOTIFY is sent to the other network and the sipfrag MIME body is present as received from the own network.		
SIP Parameter values	NOTIFY: Content-Type: message/sipfrag SIP/2.0 100 Trying **or** SIP/2.0 200 OK		
Comments	A active session is already established and a REFER request was received from the other network		
Message flows	**Mx** **SUT** **Ic** **A session is already established and REFER was sent** NOTIFY → → NOTIFY 200 OK NOTIFY ← ← 200 OK NOTIFY **Apply post test routine**		

TP number	IBCF_107_022	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/13		
Test Purpose name	INVITE containing a recipient-list supported		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a XML recipient-list, ensure that an INVITE request is sent to the other network and the received recipient-list is present.		
SIP Parameter values	INVITE: Content-Type: application/resource-lists+xml <?xml version="1.0" <resource-lists <list> <entry uri=[any URI and session identifier] <entry uri=[any URI and session identifier] </list> </resource-lists>		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_107_023	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	200 OK INVITE containing a 'isfocus' parameter		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the other network and the Contact header contains the 'isfocus' URI parameter, ensure that a 200 OK INVITE is sent to the own network and the 'isfocus' parameter is present in the Contact header field.		
SIP Parameter values	200 OK: Contact: <sip:[any URI]>;isfocus		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE 200 OK INVITE ← ← 200 OK INVITE ACK → → ACK **Apply post test routine**		

TP number	IBCF_107_024	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	INVITE containing a 'isfocus' parameter		
Test Purpose	When the IBCF receives an INVITE request from the own network and the Contact header contains the 'isfocus' URI parameter, ensure that an INVITE request is sent to the other network and the 'isfocus' parameter is present in the Contact header field.		
SIP Parameter values	INVITE: Contact: <sip:[any URI]>;isfocus		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_107_025	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	SUBCRIBE for conference event package is supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the own network and an Event header is present set to 'conference', ensure that a SUBSCRIBE request is sent to the other network containing the Event header as received from the own network.		
SIP Parameter values	SUBSCRIBE: Event: conference		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	SUBSCRIBE →	→ SUBSCRIBE	
	202 Accepted ←	← 202 Accepted	
	NOTIFY ←	← NOTIFY	
	200 OK NOTIFY →	→ 200 OK NOTIFY	
	Apply post test routine		

TP number	IBCF_107_026	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13 AND PICS 7.2.3/19		
Test Purpose name	NOTIFY for conference event package is supported		
Test Purpose	When the IBCF receives a NOTIFY request from the other network after the conference package was subscribed containing a conference info XML MIME body, ensure that a NOTIFY is sent to the own network and the conference info XML MIME body is present as received from the other network.		
SIP Parameter values	NOTIFY: Event: conference Subscription-State: active application/conference-info+xml: <*conference-info*> entity=[any URI] <*conference-state*> <user-count>2</user-count> <active>true</active> <*users*> <*user* entity=[any URI] <endpoint entity==[any URI] <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established **Conference notification is subscribed**		
	NOTIFY ←	← NOTIFY	
	200 OK NOTIFY →	→ 200 OK NOTIFY	
	Apply post test routine		

TP number	IBCF_107_027	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND AND PICS 7.2.3/14		
Test Purpose name	Support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a CUG XML networkIndicator, cugInterlockBinaryCode, cugCommunicationIndicator body, an INVITE is sent to the other network containing the CUG XML body received from the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx** → **SUT** → **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_107_028	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/14		
Test Purpose name	Support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a CUG XML outgoingAccessRequest, cugIndex body, an INVITE is sent to the other network containing the CUG XML body received from the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug cugCallOperation outgoingAccessRequest>true< cugIndex>[any value]<		
Comments			
Message flows	**Mx** → **SUT** → **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_107_029	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.3/14		
Test Purpose name	No support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the own network containing a CUG XML networkIndicator, cugInterlockBinaryCode, cugCommunicationIndicator body, an INVITE is sent to the other network not containing the CUG XML body received from the own network.		
SIP Parameter values	INVITE 1: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx** → **SUT** → **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_107_030	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 403 final response		
Test Purpose	When the IBCF receives a 403 Forbidden final response from the other network upon an INVITE request was sent to the other network containing a CUG request, ensure that the 403 final response I sent to the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	403 Forbidden ←	←	403 Forbidden
	ACK →	→	ACK

TP number	IBCF_107_031	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 603 final response		
Test Purpose	When the IBCF receives a 603 Decline final response from the other network upon an INVITE request was sent to the other network containing a CUG request, ensure that the 603 final response I sent to the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	603 Decline ←	←	603 Decline
	ACK →	→	ACK

TP number	IBCF_107_032	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 500 final response		
Test Purpose	When the IBCF receives a 500 Server Internal Error final response from the other network upon an INVITE request was sent to the other network containing a CUG request, ensure that the 500 final response I sent to the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE 2
	500 Server Internal Error ←		
	ACK		

TP number	IBCF_107_033	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	INVITE containing AOC-S info supported		
Test Purpose	When the IBCF receives an INVITE request from the own (home) network and a AOC-S XML MIME body is present, ensure that an INVITE request is sent to the other (visited) network and the AOC-S XML body is contained as received from the own network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_107_034	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	183 containing AOC-S info supported		
Test Purpose	When the IBCF receives a 183 Session Progress provisional response from the other (home) network and a AOC-S XML MIME body is present, ensure that a 183 Session Progress provisional response is sent to the own (visited) network and the AOC-S XML body is contained as received from the other network.		
SIP Parameter values	183: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress ←	←	183 Session Progress
	Apply post test routine		

TP number	IBCF_107_035	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	180 containing AOC-S info supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response from the other (home) network and a AOC-S XML MIME body is present, ensure that a 180 Ringing provisional response is sent to the own (visited) network and the AOC-S XML body is contained as received from the other network.		
SIP Parameter values	180: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_107_036	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	200 OK INVITE containing AOC-S info supported		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the other (home) network and a AOC-S XML MIME body is present, ensure that a 200 OK INVITE final response is sent to the own (visited) network and the AOC-S XML body is contained as received from the other network.		
SIP Parameter values	200 OK: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

TP number	IBCF_107_037	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	INFO containing AOC-D info supported		
Test Purpose	When the IBCF receives a INFO request from the other (home) network and a AOC-D XML MIME body is present, ensure that a INFO request is sent to the own (visited) network and the AOC-D XML body is contained as received from the other network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-d charging-info recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	INFO ←	←	INFO
	200 OK INFO →	→	200 OK INFO
		Apply post test routine	

TP number	IBCF_107_038	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	BYE containing AOC-E info supported		
Test Purpose	When the IBCF receives a BYE request from the other (home) network containing a AOC-E XML MIME body is present, ensure that the BYE request sent to the own (visited) contains the AOC-D XML MIME body as received from the other network.		
SIP Parameter values	BYE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-e recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_107_039	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	200 OK BYE containing AOC-E info supported		
Test Purpose	When the IBCF receives a 200 OK BYE response from the other (home) network containing a AOC-E XML MIME body is present, ensure that the 200 OK BYE response sent to the own (visited) contains the AOC-D XML MIME body as received from the other network.		
SIP Parameter values	200 OK BYE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-e recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE
	Apply post test routine		

TP number	IBCF_107_040	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/15		
Test Purpose name	INVITE containing the capability for network charging is supported		
Test Purpose	When the IBCF receives an INVITE request from the own (visited) network and the Accept header is set to 'application/vnd.etsi.sci+xml' ensure that an INVITE is sent to the other (home) network containing the Accept header as received from the own network.		
SIP Parameter values	INVITE: Accept: application/vnd.etsi.sci+xml		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_107_041	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	The response code 504 is supported		
Test Purpose	When the IBCF receives a 504 Server Time-out final response from the other network, ensure that the 504 Server Time-out is sent to the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	504 Server Time-out ←	←	504 Server Time-out
	ACK →	→	ACK

TP number	IBCF_107_042	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	183 containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 183 Session Progress provisional response from the other network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 183 Session Progress to the own network.		
SIP Parameter values	183: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INVITE →	→	INVITE
	183 Session Progress ←	←	183 Session Progress
	PRACK →	→	PRACK
	200 OK PRACK ←	←	200 OK PRACK
	Apply post test routine		

TP number	IBCF_107_043	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	180 containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response from the other network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 180 Ringing to the own network.		
SIP Parameter values	180: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	PRACK →	→	PRACK
	200 OK PRACK ←	←	200 OK PRACK
	Apply post test routine		

TP number	IBCF_107_044	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	200 OK containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the other network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 200 OK INVITE to the own network.		
SIP Parameter values	200 OK: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
		Apply post test routine	

TP number	IBCF_107_045	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	BYE containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a BYE request from the other network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent BYE request to the own network.		
SIP Parameter values	BYE: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE	←	← BYE
	200 OK BYE	→	→ 200 OK BYE

TP number	IBCF_107_046	**Reference**	12 [**3**]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	INFO containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives an INFO request from the other network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent INFO request to the own network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INFO	←	← INFO
	200 OK INFO	→	→ 200 OK INFO
	Apply post test routine		

TP number	IBCF_107_047	Reference	12 [3]
TSS reference	Exit_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	INFO containing a 'aocrg' XML element is supported		
Test Purpose	When the IBCF receives an INFO request from the other network and a 'sci' XML MIME body is present containing 'aocrg' element, ensure that the received 'aocrg' XML MIME body is contained in the sent INFO request to the own network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **aocrg** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart addOnCharge addOnChargeCurrency currencyFactorScale currencyFactor currencyScale originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	INFO ←	←	INFO
	200 OK INFO →	→	200 OK INFO
		Apply post test routine	

6.1.4 Network configuration hiding

6.1.4.1 Registration

TP number	IBCF_108_001	Reference	5.10.2.1, 5.10.4.2 [1]
TSS reference	Exit_Point/nch/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/1		
Test Purpose name	Encryption of Via header field		
Test Purpose	When an IBCF receives SIP **REGISTER** request from within its own network, it shall **encrypt** the all **Via** header fields identifying the network entities. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	REGISTER 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] REGISTER 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER 1 →	→	REGISTER 2
	200 OK (REGISTER) ←	←	200 OK (REGISTER)
		Apply post test routine	

TP number	IBCF_108_002	**Reference**	5.10.2.1, 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/1		
Test Purpose name	Encryption of Path header field		
Test Purpose	When an IBCF receives SIP **REGISTER** request from within its own network, it shall add its own routable SIP URI to the top of the **Path** header The received Path entries are **encrypted**.		
SIP Parameter values	REGISTER 1: Path: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr REGISTER 2: Path: <sip:[URI of IBCF]>;lr , sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER 1 →		→ REGISTER 2
	200 OK (REGISTER) ←		← 200 OK (REGISTER)
	Apply post test routine		

TP number	IBCF_108_003	**Reference**	5.10.2.1, 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/1		
Test Purpose name	Decryption of Via header field		
Test Purpose	When an IBCF receives SIP 200 OK **REGISTER** response from the other network, it shall move the topmost **Via** header and **decrypt** the all Via header fields identifying the network entities.		
SIP Parameter values	200 OK 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 200 OK 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →		→ REGISTER
	200 OK (REGISTER) 2 ←		← 200 OK (REGISTER) 1
	Apply post test routine		

TP number	IBCF_108_004	**Reference**	5.10.2.1, 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/1		
Test Purpose name	Decryption of Path header field		
Test Purpose	When an IBCF receives SIP 200 OK **REGISTER** response from the other network, it shall remove its own routable SIP URI from the top of the **Path** header The received Path header entries are **decrypted**.		
SIP Parameter values	200 OK 1: Path: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host] 200 OK 2: Path: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →		→ REGISTER
	200 OK (REGISTER) 1 ←		← 200 OK (REGISTER) 1
	Apply post test routine		

6.1.4.2 Basic call requirements

TP number	IBCF_109_001	**Reference**	5.10.2.2 2B), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the initial INVITE		
Test Purpose	When an IBCF receives an initial SIP **INVITE** request from within its own network it encrypts all received Via header URIs except the one of the IBCF prior to forwarding the request. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	INVITE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] INVITE 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments	TP_IMST2_IC_INI_01		
Message flows	**Mx** **SUT** **Ic** INVITE1 → → INVITE 2 100 Trying ← **Apply post test routine**		

TP number	IBCF_109_002	**Reference**	5.10.2.2, 2B), 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Via header in the 180 Ringing		
Test Purpose	When an IBCF receives a **180 Ringing** provisional response from the other network to a forwarded initial INVITE request and network topology hiding is required it shall decrypt the Via header URIs when forwarding to the own network.		
SIP Parameter values	180 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 180 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing 2 ← ← 180 Ringing 1 **Apply post test routine**		

TP number	IBCF_109_003	Reference	5.10.2.2, 2B, 5.10.4.3 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Via header in the 200 OK INVITE		
Test Purpose	When an IBCF receives a **200 OK INVITE** final response from the other network to a forwarded initial INVITE request and network topology hiding is required it shall decrypt the Via header URIs when forwarding to the own network.		
SIP Parameter values	200 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 200 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments	• IUT configured for topology hiding TP_IMST2_IC_INI_03		
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing 200 OK INVITE 2 ← ← 200 OK INVITE 1 ACK → → ACK **Apply post test routine**		

TP number	IBCF_109_004	Reference	5.10.2.2 2B), 5.10.4.2 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the ACK		
Test Purpose	When an IBCF receives an **ACK** request from within its own network it encrypts all received Via header URIs except the one of the IBCF prior to forwarding the request. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	ACK 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] ACK 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing 200 OK INVITE ← ← 200 OK INVITE ACK 1 → → ACK 2 **Apply post test routine**		

TP number	IBCF_109_005	**Reference**	5.10.2.3 4), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the BYE		
Test Purpose	When an IBCF receives an SIP **BYE** request from within its own network and subsequent to an initial request it shall add its own URI as the topmost Via header and encrypt all other Via header prior to forwarding the request to other networks. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	**BYE:** 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] **BYE** 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments	IUT configured for topology hiding TP_IMST2_IC_SUB_01		
Message flows	**Mx** **SUT** **Ic** **A confirmed dialogue is already established** BYE 1 → → BYE 2 200 OK BYE ← ← 200 OK BYE		

TP number	IBCF_109_006	**Reference**	5.10.2.3, 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Via header in the 200 OK BYE		
Test Purpose	When an IBCF receives a **200 OK BYE** response from the other network to a forwarded Bye request and network topology hiding is required it shall decrypt the Via header URIs when forwarding to the own network.		
SIP Parameter values	200 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 200 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments			
Message flows	**Mx** **SUT** **Ic** **A confirmed dialogue is already established** BYE → → BYE 200 OK BYE 2 ← ← 200 OK BYE 1		

TP number	IBCF_109_007	Reference	5.10.2.2 3) 4), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the CANCEL		
Test Purpose	When an IBCF receives an SIP **CANCEL** request from within its own network and subsequent to an initial request it shall add its own URI as the topmost Via header and encrypt all other Via header prior to forwarding the request to other networks. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	**CANCEL:** 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] **CANCEL** 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments	IUT configured for topology hiding TP_IMST2_IC_SUB_01		
Message flows	**Mx** **SUT** **Ic** **An early dialogue is already established** CANCEL 1 → → CANCEL 2 200 OK CANCEL ← ← 200 OK CANCEL **Apply post test routine**		

TP number	IBCF_109_008	Reference	5.10.2.3 4), 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Via header in the 200 OK CANCEL		
Test Purpose	When an IBCF receives a **200 OK CANCEL** response from the other network to a forwarded Bye request and network topology hiding is required it shall decrypt the Via header URIs when forwarding to the own network.		
SIP Parameter values	200 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 200 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments			
Message flows	**Mx** **SUT** **Ic** **An early dialogue is already established** CANCEL → → CANCEL 200 OK CANCEL 2 ← ← 200 OK CANCEL 1 **Apply post test routine**		

TP number	IBCF_109_009	**Reference**	5.10.2.3 1) 3), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the MESSAGE		
Test Purpose	When an IBCF receives a SIP request other than a SIP REGISTER or SIP INVITE in a standalone transaction from within its own network, it shall add its own URI as the topmost Via header and encrypt all other Via header prior to forwarding the request to other networks. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	MESSAGE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] MESSAGE 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments	TP_IMST2_IC_STA_01		
Message flows	**Mx**	**SUT**	**Ic**
	MESSAGE 1 →		→ MESSAGE 2
	200 OK MESSAGE ←		← 200 OK MESSAGE

TP number	IBCF_109_010	**Reference**	5.10.2.3 1) 3), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the target refresh INVITE		
Test Purpose	When an IBCF receives a target refresh request or periodic refreshment of the session from within its own network it shall respond with a SIP 100 response, add its own URI to the Via header and encrypt all other Via headers prior to forwarding the request to other networks. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	INVITE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] INVITE 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments	IUT configured for topology hiding TP_IMST2_IC_TAR_01		
Message flows	**Mx**	**SUT**	**Ic**
	A confirmed dialogue is already established from the own network		
	INVITE 1 →		
	100 Trying ←		→ INVITE 2
	200 OK INVITE ←		← 200 OK INVITE
	ACK →		→ ACK

TP number	IBCF_109_011	Reference	5.10.2.3, 5.10.4.3 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Via header in the target refresh 200 OK INVITE		
Test Purpose	When an IBCF receives a **200 OK INVITE** final response upon a target refresh request or periodic refreshment of the session from the other network to a forwarded reINVITE request and network topology hiding is required it shall decrypt the Via header URIs when forwarding to the own network.		
SIP Parameter values	200 1: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [URI user];branch=[any] 200 2: VIA: SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [any URI 1];branch=[any], SIP/2.0/[transport] [user URI];branch=[any]		
Comments	• IUT configured for topology hiding TP_IMST2_IC_INI_03		
Message flows	**Mx** **SUT** **Ic** **A confirmed dialogue is already established from the own network** INVITE → → INVITE 200 OK INVITE 2 ← ← 200 OK INVITE 1 ACK → → ACK **Apply post test routine**		

TP number	IBCF_109_012	Reference	5.10.2.3, 5.10.4.2 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Via headers in the target refresh ACK		
Test Purpose	When an IBCF receives an ACK request upon a target refresh request or periodic refreshment of the session from within its own network it encrypts all received Via header URIs except the one of the IBCF prior to forwarding the request. All received Via header entries are result in one encrypted Via header field.		
SIP Parameter values	ACK 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any] VIA: SIP/2.0/[transport] [any URI 2];branch=[any] VIA: SIP/2.0/[transport] [user URI] ;branch=[any] ACK 2: VIA: SIP/2.0/[transport] [URI of IBCF], SIP/2.0/[transport] Token(SIP/2.0/[transport] [any URI 1];branch=[any], (SIP/2.0/[transport] [any URI 2];branch=[any]; tokenized-by=[any host], SIP/2.0/[transport] [user URI] ;branch=[any]		
Comments			
Message flows	**Mx** **SUT** **Ic** **A confirmed dialogue is already established from the own network** INVITE → → INVITE 200 OK INVITE ← ← 200 OK INVITE ACK 1 → → ACK 2 **Apply post test routine**		

TP number	IBCF_109_013	**Reference**	5.10.2.2 3), 5.10.4.2 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Record-Route headers in the initial INVITE		
Test Purpose	When an IBCF receives an initial SIP **INVITE** request from within its own network it encrypts all received Record-Route header URIs except the one of the IBCF prior to forwarding the request. All received Record-Route header entries are result in one encrypted Record-Route header field.		
SIP Parameter values	INVITE 1: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr INVITE 2: Record-Route: <sip:[URI of IBCF]>;lr , sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE1 →	→	INVITE 2
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_109_014	**Reference**	5.10.2.2 3), 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Record-Route header in the 180 Ringing		
Test Purpose	When an IBCF receives a **180 Ringing** provisional response from the other network to a forwarded initial INVITE request and network topology hiding is required it shall decrypt the Record-Route header URIs when forwarding to the own network.		
SIP Parameter values	180 1: Record-Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host] 180 2: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing 2 ←	←	180 Ringing 1
	Apply post test routine		

TP number	IBCF_109_015	**Reference**	5.10.2.2 3), 5.10.4.3 [**1**]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Record-Route header in the 200 OK INVITE		
Test Purpose	When an IBCF receives a **200 OK INVITE** final response from the other network to a forwarded initial INVITE request and network topology hiding is required it shall decrypt the Record-Route header URIs when forwarding to the own network.		
SIP Parameter values	200 OK 1: Record-Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host] 200 OK 2: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	ACK →	→	ACK
	Apply post test routine		

TP number	IBCF_109_016	Reference	5.10.2.3 4), 5.10.4.2 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Route headers in the ACK		
Test Purpose	When an IBCF receives an ACK request from within its own network it encrypts all received Route header URIs identifying entities in the own network except the one of the IBCF prior to forwarding the request. All received Route header entries are result in one encrypted Route header field.		
SIP Parameter values	ACK 1: Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr ACK 2: Route: <sip:[any URI 1]>;lr, sip:Token(<sip:[any URI 2]>;lr), tokenized-by=[any host]		
Comments	URI 1 represents an entity in the other network URI 2 represents an entity in the own network		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_109_017	Reference	5.10.2.3 4), 5.10.4.2 [1]
TSS reference	Exit_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Route headers in the reINVITE		
Test Purpose	When an IBCF receives an additional SIP **INVITE** request from within its own network it encrypts all received Route header URIs identifying entities in the own network except the one of the IBCF prior to forwarding the request. All received Route header entries are result in one encrypted Route header field.		
SIP Parameter values	INVITE 1: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr INVITE 2: Record-Route: <sip:[any URI 1]>;lr, sip:Token(<sip:[any URI 2]>;lr), tokenized-by=[any host]		
Comments	URI 1 represents an entity in the other network URI 2 represents an entity in the own network		
Message flows	**Mx**	**SUT**	**Ic**
	A confirmed dialogue is already established		
	INVITE1 →	→	INVITE 2
	Apply post test routine		

6.1.5 Application level gateway

6.1.5.1 Treatment of SIP singnaling

TP number	IBCF_110_001	Reference	5.10.5 [1], 16.3 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in INVTE unknown		
Test Purpose	Ensure that the IUT on receipt of an INVITE request from the own network with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.		
SIP Parameter values	INVITE: Request line got:[any URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →		
	416 Unsupported URI Scheme ←		
	ACK →		

TP number	IBCF_110_002	Reference	5.10.5 [1], 16.3 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in INVITE received		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.		
SIP Parameter values	INVITE: Max-Forwards: 0		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → 483 Too many hops ← ACK →		

TP number	IBCF_110_003	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including a Max-Forwards header set to 5, forwards it to the other network after having decreasing this counter of one.		
SIP Parameter values	INVITE 1: Max-Forwards: 5 INVITE 2: Max-Forwards: 4		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_004	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network without a Max-Forwards header, forwards it to the other network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	INVITE 1: INVITE 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_005	Reference	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the own network including a Max-Forwards header set to 5, forwards it to the other network after having decreasing this counter of one.		
SIP Parameter values	ACK 1: Max-Forwards: 5 ACK 1: Max-Forwards: 4		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_110_006	Reference	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the own network without a Max-Forwards header, forwards it to the other network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	ACK 1: ACK 2: Max-Forwards: 70		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	ACK 1 →	→	ACK 2
	Apply post test routine		

TP number	IBCF_110_007	Reference	5.10.5 [**1**], 16.3 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in CANCEL unknown		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the own network with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.		
SIP Parameter values	CANCEL: Request line got:[any URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL →		
	416 Unsupported URI Scheme ←		
	Apply post test routine		

TP number	IBCF_110_008	Reference	5.10.5 [1], 16.3 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in CANCEL received		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the own network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.		
SIP Parameter values	CANCEL: Max-Forwards: 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL →		
	483 Too many hops ←		
	Apply post test routine		

TP number	IBCF_110_009	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in CANCEL		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the own network, without a Max-Forwards header, forwards it to the other network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	CANCEL 1: CANCEL 2: Max-Forwards: 70		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	CANCEL 1 →	→	CANCEL 2
	Apply post test routine		

TP number	IBCF_110_010	Reference	5.10.5 [1], 16.3 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in Bye unknown		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the own network with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response to the own network.		
SIP Parameter values	BYE: Request line got:[any URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →		
	416 Unsupported URI Scheme ←		
	Apply post test routine		

TP number	IBCF_110_011	Reference	5.10.5 [1], 16.3 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in BYE received		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the own network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response to the own network.		
SIP Parameter values	BYE: Max-Forwards: 0		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE → 483 Too many hops ← **Apply post test routine**		

TP number	IBCF_110_012	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the own network including a Max-Forwards header set to 5, forwards it to the other network after having decreasing this counter of one.		
SIP Parameter values	BYE 1: Max-Forwards: 5 BYE 1: Max-Forwards: 4		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 1 → → BYE 2 **Apply post test routine**		

TP number	IBCF_110_013	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request, without a Max-Forwards header, forwards it after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	BYE 1: BYE 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 1 → → BYE 2 **Apply post test routine**		

TP number	IBCF_110_014	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI paramerter in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network with the Request-URI containing a not allowed parameter, removes this parameter from the Request-URI before forwarding that message to the other network.		
SIP Parameter values	INVITE 1: Request line [URI] ;UnsupportedToken=UnsupportedValue INVITE: Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_015	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the own network, with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the other network.		
SIP Parameter values	ACK 1: Request line [URI] ;UnsupportedToken=UnsupportedValue ACK 2: Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing 200 OK INVITE ← ← 200 OK INVITE ACK → → ACK **Apply post test routine**		

TP number	IBCF_110_016	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in CANCEL		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the own network with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the other network.		
SIP Parameter values	CANCEL 1: Request line [URI] ;UnsupportedToken=UnsupportedValue CANCEL 2: Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing CANCEL 1 → → CANCEL 2 **Apply post test routine**		

TP number	IBCF_110_017	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the own network with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the other network.		
SIP Parameter values	BYE 1:Request line [URI] ;UnsupportedToken=UnsupportedValue BYE 2:Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 1 → → BYE 2 **Apply post test routine**		

TP number	IBCF_110_018	Reference	5.10.5 [1], 16.7 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	200 OK does not match an existing transaction		
Test Purpose	Ensure that the IBCF, on receipt of a Success (200 OK INVITE) response from the other network that does not match to an existing client transaction with a single Via header, does not forward the message.		
SIP Parameter values	200 OK INVITE: Cseq: [any value] NOTIFY		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing ← 200 OK **Apply post test routine**		

TP number	IBCF_110_019	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 100 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Trying (100 Trying) response from the other network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE ← 100 Trying **Apply post test routine**		

TP number	IBCF_110_020	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 183 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Session Progress (183 Session Progress) response from the other network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE → → INVITE 183 Session Progress ← ← 183 Session Progress **Apply post test routine**		

TP number	IBCF_110_021	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 180 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Ringing (180 Ringing) response from the other network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE → → INVITE 180 Ringing ← ← 180 Ringing **Apply post test routine**		

TP number	IBCF_110_022	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP Timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state repeats its INVITE request to the other network on the timeout condition of timer A set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE → Start A (T1) → INVITE Timeout A → INVITE **Apply post test routine**		

TP number	IBCF_110_023	Reference	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/2		
Test Purpose name	TCP Timeout timer A the INVITE is not repeated		
Test Purpose	If a reliable transport (TCP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state does not repeat its INVITE request to the other network on the timeout condition of timer A set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	Start A (T1) →	INVITE
		Timeout A	
		Apply post test routine	

TP number	IBCF_110_024	Reference	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP Second timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state having already repeated its INVITE to the other network wait for a timer A set with a value of 2*T1 before sending it again.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
		Start A (2*T1) →	INVITE
		Timeout A →	INVITE
		Apply post test routine	

TP number	IBCF_110_025	Reference	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP Third timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state retransmits its INVITE request to the other network with intervals that double after each transmission.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
		→	INVITE
		Start A (4*T1) →	INVITE
		Timeout A →	INVITE
		Apply post test routine	

TP number	IBCF_110_026	**Reference**	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: No ACK is sent after timeout timer B		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, when timer B set to a value of 64*T1 expires, considers the transaction terminated and does not send an ACK to the other network.		
SIP Parameter values			
Comments	After timeout timer B the INVITE is not retransmitted and no ACK is sent		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	Start B (64*T1)	→ INVITE → INVITE → INVITE
		Timeout B	
		Apply post test routine	

TP number	IBCF_110_027	**Reference**	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: ACK is retransmitted until timeout timer D		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE client transaction is in the Completed state, on receipt of an unsuccessful final response from the other network that matches the transaction, repeats its ACK request until timer D set to at least 32 second expires.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →		→ INVITE
	[any final response] ←		← [any unsuccessful final response]
	ACK →	Start timer D	→ ACK
			← [any unsuccessful final response]
			→ ACK
			← [any unsuccessful final response]
			→ ACK
		Timeout timer D	
			← [any unsuccessful final response]
		Apply post test routine	

TP number	IBCF_110_028	Reference	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/2		
Test Purpose name	TCP: ACK is retransmitted until timeout timer D		
Test Purpose	If a reliable transport is used, ensure that the IBCF, when an INVITE client transaction is in the Completed state, on receipt of an unsuccessful final response from the other network that matches the transaction, repeats its ACK request until timeout timer D.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
[any final response]	←		←	[any unsuccessful final response]
ACK	→	Start timer D	→	ACK
			←	[any unsuccessful final response]
			→	ACK
		Timeout timer D		
			←	[any unsuccessful final response]

Apply post test routine

TP number	IBCF_110_028A	Reference	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	ACK is retransmitted until timeout timer D		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Terminated state, on receipt of a 200 OK INVITE final response from the other network that matches the transaction, does not repeat its ACK.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
			←	200 OK INVITE

Apply post test routine

TP number	IBCF_110_029	Reference	5.10.5 [**1**], 17.1.2.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: BYE is retransmitted after timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state having sent a BYE request to the other network, repeats its request after timer E set to T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	→	Start timer E (T1)	→	BYE
200 OK BYE	←			
		Timeout timer E	→	BYE

Apply post test routine

TP number	IBCF_110_030	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: BYE is retransmitted after second timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state having sent twice times a BYE request to the other network, repeats its request after timer E set to the MIN(2*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows	Mx		SUT		Ic
			A session is already established		
	BYE	→	Start timer E (T1)	→	BYE
			Timeout timer E	→	BYE
			Start timer E (2*T1)		
			Timeout timer E	→	BYE
			Apply post test routine		

TP number	IBCF_110_031	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: BYE is retransmitted after third timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state having sent three times a BYE request to the other network, repeats its request after timer E set to the MIN(4*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows	Mx		SUT		Ic
			A session is already established		
	BYE	→	Start timer E (T1)	→	BYE
			Timeout timer E	→	BYE
			Start timer E (4*T1)		
			Timeout timer E	→	BYE
			Apply post test routine		

TP number	IBCF_110_032	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	UDP: BYE is retransmitted after timeout timer E value T2		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state and the time of T2 is reached, the BYE request is retransmitted to the other network in the time of T2.		
SIP Parameter values			
Comments			

Message flows	Mx		SUT		Ic
			A session is already established		
	BYE	→	Start timer E, F (64*T1)	→	BYE
			Timeout timer E	→	BYE
			Timeout timer E	→	BYE
			Timeout timer E	→	BYE
			Timeout timer E	→	BYE
			Start E (T2)		
			Timeout timer E	→	BYE
			Apply post test routine		

TP number	IBCF_110_033	Reference	5.10.5 [**1**], 17.1.2.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The BYE is not repeated after timeout Timer F		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state does not repeat a BYE request, after timer F set to 64*T1 expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	→	Start timer E, F (64*T1)	→	BYE
		Timeout timer E	→	BYE
		Timeout timer E	→	BYE
		Timeout timer F		
		Apply post test routine		

TP number	IBCF_110_034	Reference	5.10.5 [**1**], 17.1.2.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE Transaction in the terminated state		
Test Purpose	Ensure that the IBCF, when a BYE client transaction is in the Trying state, considers the transaction terminated after 64*T1 duration expires without receiving any final response.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	→	Start timer E, F (64*T1)	→	BYE
		Timeout timer E	→	BYE
		Timeout timer E	→	BYE
		Timeout timer F		
BYE	→			
481 Call/Transaction Does Not Exist	←			

TP number	IBCF_110_035	**Reference**	5.10.5 [**1**], 16.2, 8.2.6.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	INVITE received a 100 is sent		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the own network, sends a provisional (100 Trying) response to the own network including the headers From, Call-Id, CSeq and Via copied from the INVITE message.		
SIP Parameter values	INVITE: From Call-ID CSeq Via 100: From Call-ID CSeq Via		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_110_036	**Reference**	5.10.5 [**1**], 16.2, 8.2.6.2, 17.2.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	No tag parameter received in the INVITE, no tag parameter sent in 100		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the own network with no "tag" set on the To header, sends a provisional (100 Trying) response to the own network including the same URI and no tag in the To header.		
SIP Parameter values	INVITE: To: [any URI] (no tag) 100: To: [any URI] (no tag)		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_110_037	**Reference**	5.10.5 [**1**], 16.2, 8.2.6.2, 17.2.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	tag parameter received in INVITE, the same tag parameter is sent in the 100		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the own network with a "tag" set on the To header, sends a provisional (100 Trying) response to the own network including the same URI and the same tag in the To header.		
SIP Parameter values	INVITE: To: [any URI], tag=[any value] 100: To: [any URI], tag=[same value as in INVITE received]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	INVITE →	→	INVITE
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_110_038	**Reference**	5.10.5 [**1**], 17.2.3.1, 17.2.3.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Last response is repeated if INVITE request received with same branch parameter		
Test Purpose	Ensure that the IBCF in a server INVITE Proceeding state, on receipt of an INVITE request from the own network, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.		
SIP Parameter values	INVITE: Via: 100: Via:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←		
	INVITE →		
	100 Trying ←		
	Apply post test routine		

TP number	IBCF_110_039	**Reference**	5.10.5 [**1**], 17.2.1, 17.2.3 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header is sent in the repeated 486 response		
Test Purpose	Ensure that the IBCF in a server INVITE Completed state, on receipt of an INVITE request from the own network, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response sent to the own network.		
SIP Parameter values	486 1: Via: 486 2: Via:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	486 Busy Here 1 ←	←	486 Busy Here
		→	ACK
	INVITE →		
	486 Busy Here 2 ←		
	ACK →		
	Apply post test routine		

TP number	IBCF_110_040	**Reference**	5.10.5 [**1**], 17.2.2, 17.2.3 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header is sent in the repeated 200 OK response		
Test Purpose	Ensure that the IBCF in a server BYE **Completed state**, on receipt of a BYE request, including a Via header set with the same branch parameter and sent-by value in the topmost list, repeats its last response.		
SIP Parameter values	BYE: Via: 200 OK: Via:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE
	BYE →		
	200 OK BYE ←		

TP number	IBCF_110_041	**Reference**	5.10.5 [**1**], 9.2, 16.10 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header in CANCEL received as in INVITE		
Test Purpose	Ensure that the IBCF in a server INVITE **Proceeding state**, on receipt of a CANCEL, including a Via header set with the same branch parameter and sent-by value with the topmost Via value INVITE to be cancelled, sends a Success (200 Success) response to the CANCEL request.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←	←	100 Trying
	CANCEL →	→	CANCEL
	200 OK CANCEL ←	←	200 OK CANCEL
	487 Request Terminated ←	←	487 Request Terminated
	ACK →	→	ACK

TP number	IBCF_110_042	**Reference**	5.10.5 [**1**], 13.3.1.3, 17.2.3.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	State change from the Proceeding state into the Completed state		
Test Purpose	Ensure that the IBCF in a server INVITE Proceeding state, after sending a 4XX response, enters in the Completed state.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	100 Trying ←	←	100 Trying
	486 Busy Here ←	←	486 Busy Here
		→	ACK
	486 Busy Here ←		
	ACK →		

TP number	IBCF_110_043	**Reference**	5.10.5 [**1**], 13.3.1.4, 17.2.3.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	State change from the Proceeding state into the Confirmed state		
Test Purpose	Ensure that the IBCF in a server INVITE Completed state, on receipt of an ACK request, enters in the Confirmed state.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →		→ INVITE
	486 Busy Here ←		← 486 Busy Here
	ACK →		→ ACK

TP number	IBCF_110_044	**Reference**	5.10.5 [**1**], 15.1.2 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	481 response to a BYE request		
Test Purpose	Ensure that the IBCF, while no dialog has been established, on receipt of a BYE request, sends a Call/Transaction does not exist (481 Call/Transaction does not exist).		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	BYE →		
	481 Call/Transaction does not exist ←		

TP number	IBCF_110_045	**Reference**	5.10.5 [**1**], 17.2.1, Annex A [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	Final response repeated after timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state repeats its response sent to the own network on the timeout condition of timer G set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →		→ INVITE
	180 Ringing ←		← 180 Ringing
			← 403 Forbidden
	403 Forbidden ←	Start timer G (T1)	
	403 Forbidden ←	Timeout timer G	
	ACK →		

TP number	IBCF_110_046	**Reference**	5.10.5 [**1**], 17.2.1, Annex A [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	Final response is not repeated after timeout timer G		
Test Purpose	If a reliable transport (TCP) is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state does not repeat its response to the own network on the timeout condition of timer G set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →		→ INVITE
	180 Ringing ←		← 180 Ringing
			← 403 Forbidden
	403 Forbidden ←	Start timer G (T1) Timeout timer G	
	ACK →		

TP number	IBCF_110_047	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	Final response repeated after second timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and having already sent twice times its response to the own network, repeats it after timer G set MIN(2*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
			←	403 Forbidden
403 Forbidden	←	Start timer G (T1)		
403 Forbidden	←	Timeout timer G Start timer G (2*T1)		
403 Forbidden	←	Timeout timer G		
ACK	→			

TP number	IBCF_110_048	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	Final response repeated after third timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and having already sent three times its response to the own network, repeats it after timer G set the MIN(4*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
			←	403 Forbidden
403 Forbidden	←	Start timer G (T1)		
403 Forbidden	←	Timeout timer G Start timer G (2*T1)		
403 Forbidden	←	Timeout timer G Start timer G (4*T1)		
403 Forbidden	←	Timeout timer G		
ACK	→			

TP number	IBCF_110_049	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The terminated state is entered after timer H was expired		
Test Purpose	Ensure that the IBCF, when an INVITE server transaction is in the Completed state and, enters in the Terminated state after timer H set to 64*T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
			←	403 Forbidden
403 Forbidden	←	Start timer H (64*T1)	→	ACK
		Timeout timer H		
ACK	→			

TP number	IBCF_110_050	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	Final response is not repeated after timeout timer H		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and, does not repeats its response sent to the own network after timer H set to 64*T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
			←	403 Forbidden
403 Forbidden	←	Start timer H (64*T1)		
403 Forbidden	←			
403 Forbidden	←			
		Timeout timer H		
		Apply post test routine		

TP number	IBCF_110_051	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	The terminated state is entered after timer I was expired		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Confirmed state, enters in the Terminated state after timer I set to T4 value expires. A 481 response to the ACK after timer I was expired is optional.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
403 Forbidden	←		←	403 Forbidden
ACK	→	Start timer I (T4)		
ACK	→			
		Timeout timer I		
ACK	→			
481 Call/Transaction does not exist	←			

TP number	IBCF_110_052	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	The server enters immediately in the terminated state		
Test Purpose	If a reliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Confirmed state, enters immediately in the Terminated state.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	→		→	INVITE
180 Ringing	←		←	180 Ringing
403 Forbidden	←		←	403 Forbidden
ACK	→	Start timer I (T4)		
ACK	→			
481 Call/Transaction does not exist	←			

TP number	IBCF_110_053	**Reference**	5.10.5 [**1**], 17.2.2, Annex A [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	Enters from the completed state into the terminated state		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE server transaction is in the Completed state, on receipt of the repetitions of the BYE request, retransmits its response until the timer J set to 64*T1 expires.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE → → BYE 200 OK BYE ← Start timer J (64*T1) ← 200 OK BYE BYE → 200 OK BYE ← Timeout timer J BYE → 481 Call/Transaction does not exist ←		

TP number	IBCF_110_054	**Reference**	5.10.5 [**1**], 8.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the own network, ensure that an INVITE is sent to the other network and the Contact header contains the URI of the IBCF.		
SIP Parameter values	INVITE: Contact: <[URI of IBCF]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_055	**Reference**	5.10.5 [**1**],
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	An IPv6 Address in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the own network, ensure that an INVITE is sent to the other IPv6 network and when the Contact header contains an IP address it is an IPv6 address identifying the IBCF.		
SIP Parameter values	INVITE 2: Contact: <[5555::aaa:bbb:ccc:ddd]>		
Comments	The IPv6 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_056	**Reference**	5.10.5 [**1**],
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	An IPv4 Address in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the own IPv6 network, ensure that an INVITE is sent to the other IPv4 network and when the Contact header contains an IP address it is an IPv4 address identifying the IBCF.		
SIP Parameter values	INVITE 2: Contact: <[aaa.bbb.ccc.ddd]>		
Comments	The IPv4 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_057	**Reference**	5.10.5 [**1**],
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the own network, ensure that an INVITE is sent to the other network and when the Contact header contains an IP address not equal to the address received from the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_058	**Reference**	5.10.5 [**1**], 19.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Unknown uri parameter in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including non-understood uri-parameters in the SIP-URI of the Contact header forwards the message to the other network.		
SIP Parameter values	INVITE: Contact: <[any URI]>;unknown=nonunderstood		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_059	**Reference**	5.10.5 [**1**], 19.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Header parameter present in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including a header parameter in the SIP-URI of the Contact header forwards the message to the other network.		
SIP Parameter values	INVITE: Contact: <[any URI]>;h1=%		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_060	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	method uri parameter present in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message to the other network.		
SIP Parameter values	INVITE: Contact: <[any URI];method=INVITE>		
Comments			
Message flows	**Mx** → **SUT** → **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_061	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	One Via header is sent to the other network		
Test Purpose	Ensure that the IBCF sends an INVITE request to the other network when an INVITE request was received from the own network and one Via header entry is present identifying the IBCF. The received Via header entries are not present.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [URI of IBCF];branch=z9hG4bK…..		
Comments			
Message flows	**Mx** → **SUT** → **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_062	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	The Via header URI is a IPv6 address		
Test Purpose	When the IBCF sends an INVITE request to the other IPv6 network and the Via header value identifying the IBCF is an IP address, ensure that the IP address in the Via header is an IPv6 address.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [[5555::aaa:bbb:ccc:ddd]:>port>];branch=[any value]		
Comments	The IP v6 address is an example not a real value		
Message flows	**Mx** → **SUT** → **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_063	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	The Via header URI is a IP v4 address		
Test Purpose	When the IBCF sends an INVITE request to the other IPv4 network and the Via header value identifying the IBCF is an IP address, ensure that the IP address in the Via header is an IPv4 address.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [aaa.bbb.ccc.ddd:<port>];branch=[any value]		
Comments	The IP v4 address is an example not a real value		
Message flows	**Mx** → **SUT** → **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_064	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the Via header in the sent INVITE		
Test Purpose	When the IBCF sends an INVITE request to the other network and the Via header value identifying the IBCF is an IP address, ensure that the IP address in the Via header is not equal to the IP address received from the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_110_065	Reference	5.10.5 [1], 7.3.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Via header branch parameter with upper and lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including a branch parameter named with upper and lower cases in Via header forwards the message to the other network.		
SIP Parameter values	INVITE: Via: SIP/2.0/[any transport] [any URI];BrAnCH=z9hG4bK…..		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	Apply post test routine		

TP number	IBCF_110_066	Reference	5.10.5 [1], 7.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Successful final response with non-defined response code received		
Test Purpose	Ensure that the IBCF after having forwarded an INVITE request from the own network, on receipt of a Success (299 OK) response with non-defined last two digits forwards the message to the other network.		
SIP Parameter values	299 OK CSeq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	299 OK INVITE ←	←	299 OK INVITE
	Apply post test routine		

TP number	IBCF_110_067	Reference	5.10.5 [1], 7.2 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Successful final response with unknown reason phrase received		
Test Purpose	Ensure that the IBCF after having forwarded an INVITE request from the own network, on receipt of a Success (200 PERFECT) response with an unknown reason phrase forwards the message to the other network.		
SIP Parameter values	200 OK PERFECT:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK ←	←	200 OK
	Apply post test routine		

TP number	IBCF_110_068	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	From header field in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network, an INVITE request is sent to the other network. Ensure that the 'tag' value of the sent From header field is different from the value received from the own network.		
SIP Parameter values	INVITE 2: From: <[any URI]>;tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_110_069	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To header field in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network, an INVITE request is sent to the other network. Ensure that no 'tag' value is present in the To header field in the INVITE sent to the other network.		
SIP Parameter values	INVITE 2: To: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_110_070	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To tag in the sent 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the other network, a 180 Ringing response is sent to the own network. Ensure that the 'tag' value sent to the own network is not equal to the value received from the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	Apply post test routine		

TP number	IBCF_110_071	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To tag in the sent 183		
Test Purpose	When the IBCF receives a 183 Session Progress response from the other network, a 183 Session Progress response is sent to the own network. Ensure that the 'tag' value sent to the own network is not equal to the value received from the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress ←	←	183 Session Progress
	Apply post test routine		

TP number	IBCF_110_072	**Reference**	5.10.5 [**1**], 7.3. [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Headers with short name included		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including headers set with short names forwards the message to the other network.		
SIP Parameter values	INVITE: f: <[any URI]>;tag=[any value] t: <[any URI]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_073	**Reference**	5.10.5 [**1**], 7.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	SIP version in request line in lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network with SIP version in lower case forwards the message to the other network.		
SIP Parameter values	INVITE: sip: [any URI]sip/2.0		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_074	**Reference**	5.10.5 [**1**], 7.3.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	SIP header field names in upper and lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including headers named with upper and lower cases forwards the message to the other network.		
SIP Parameter values	INVITE: frOM: <[any URI]>;tag=[any value] tO: <[any URI]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_075	**Reference**	5.10.5 [**1**], 19.1.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	'transport' parameter in From and To header		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the own network including a transport parameter in the From and To headers, ignores them and forwards the message to the other network.		
SIP Parameter values	INVITE: From: <sip:[any URI];transport=[any transport]>;tag=[any value] To: <sip:[any URI];transport=[any transport]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_076	Reference	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Call-ID in the sent INVITE establishes a new call leg		
Test Purpose	When the IBCF receives an INVITE request from the own network, an INVITE request is sent to the other network. Ensure that the Call-ID value is different from the Call-ID value received from the own network.		
SIP Parameter values	INVITE 2: Call-ID: [any value]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_077	Reference	5.10.5 [**1**], 21.4.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	INVITE request without Call-ID header not supported		
Test Purpose	Ensure that the IUT, on receipt of an INVITE request from the own network without Call-Id header sends a Bad Request (400 Bad Request) response.		
SIP Parameter values	INVITE: Call-ID header not present		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → 400 Bad Request ← ACK →		

TP number	IBCF_110_078	Reference	5.10.5 [**1**], 21.4.1 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	INVITE request with several CRLF before start-line supported		
Test Purpose	Ensure that the IUT, on receipt of an INVITE request from the own network over a stream-oriented (TCP) transport with several CRLF before the start-line, forwards the message.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_079	Reference	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own network ensure that an INVITE request is sent to the other network and if Record-Route header entry is present it contains the address of the IBCF.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[URI of IBCF];lr>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_110_080	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv6 address in the **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own IPv4 network ensure that an INVITE request is sent to the other IPv6 network and the Record-Route header contains an IP address identifying the IBCF it is an IPv6 address.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[5555::aaa:bbb:ccc:ddd];lr>		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_081	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/6		
Test Purpose name	IPv4 address in the **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the own IPv6 network ensure that an INVITE request is sent to the other IPv4 network and when the Record-Route header contains an IP address identifying the IBCF it is an IP v4 address.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[aaa.bbb.ccc.ddd];lr>		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE **Apply post test routine**		

TP number	IBCF_110_082	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	GRUU received in Contact header GRUU is sent		
Test Purpose	When an IBCF processes a SIP request or response that contains a contact address which is a Globally Routable User agent URI (GRUU), it shall replace the contact address with an address which is also a GRUU.		
SIP Parameter values	INVITE Contact header GRUU 200 OK: Contact header GRUU		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE → → INVITE 180 Ringing ← ← 180 Ringing 200 OK INVITE ← ← 200 OK INVITE **Apply post test routine**		

TP number	IBCF_110_083	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	No GRUU received in Contact header no GRUU is sent		
Test Purpose	When an IBCF processes a SIP request or response that contains a contact address which is not a Globally Routable User agent URI (GRUU), it shall replace the contact address with an address which is not a GRUU.		
SIP Parameter values	INVITE: Contact header no GRUU 200 OK: Contact header no GRUU		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	Apply post test routine		

6.1.5.2 Treatment of session and media description

TP number	IBCF_111_001	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'o' line contains the IP address from the owner/creator in the own network, ensure that an INVITE request is sent to the other network and the SDP contains an 'o' line the IP address is set to the IP address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] or o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF] or o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_111_002	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'o' line contains the IP address from the owner/creator in the own network and is an IPv4 address, ensure that an INVITE request is sent to the other network and the SDP contains an 'o' line the IP address is set to the IPv6 address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_111_003	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv6 to IPv4 IP version interworking in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'o' line contains the IP address from the owner/creator in the own network and is an IPv6 address, ensure that an INVITE request is sent to the other network and the SDP contains an 'o' line the IP address is set to the IPv4 address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_111_004	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'o' line contains the IP address from the owner/creator in the other network, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains an 'o' line the IP address is set to the IP address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] or o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF] or o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_005	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv6 to IPv4 IP version interworking in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'o' line contains the IP address from the owner/creator in the other network and is an IPv4 address, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains an 'o' line the IP address is set to the IPv6 address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_006	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'o' line contains the IP address from the owner/creator in the other network and is an IPv6 address, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains an 'o' line the IP address is set to the IPv4 address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_007	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'c' line contains the IP address from the data connection in the own network, ensure that an INVITE request is sent to the other network and the SDP contains a 'c' line the IP address is set to the IP address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP4 [data connection address (PIXIT)] or c=IN IP6 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP4 [IP address TrGW or c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_111_008	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'c' line contains the IP address from the data connection in the own network and is an IPv4 address, ensure that an INVITE request is sent to the other network and the SDP contains a 'c' line the IP address is set to the IPv6 address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP4 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_111_009	Reference	5.10.5 [1]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv6 to IPv4 IP version interworking in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its own network and the 'c' line contains the IP address from the data connection in the own network and is an IPv6 address, ensure that an INVITE request is sent to the other network and the SDP contains a 'c' line the IP address is set to the IPv4 address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP6 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP4 [IP address TrGW]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 1 → → INVITE 2 **Apply post test routine**		

TP number	IBCF_111_010	**Reference**	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'c' line contains the IP address from the data connection in the other network, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains a 'c' line the IP address is set to the IP address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP4 [data connection address (PIXIT)] or c=IN IP6 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP4 [IP address TrGW or c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_011	**Reference**	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv6 to IPv4 IP version interworking in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'c' line contains the IP address from the data connection in the other network and is an IPv4 address, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains a 'c' line the IP address is set to the IPv6 address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP4 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_012	**Reference**	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the 'c' line contains the IP address from the data connection in the other network and is an IPv6 address, ensure that a 200 OK INVITE response is sent to its own network and the SDP contains a 'c' line the IP address is set to the IPv4 address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP6 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP4 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_013	**Reference**	5.10.7 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	The IBCF adds codecs to the coded list in the offer		
Test Purpose	When the IBCF receives an INVITE request from the own network and the a SDP is present, the IBCF sends an INVITE request to the other network and the IBCF adds one or more codecs to the selected media at the end of the received codec list.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..)		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_111_014	**Reference**	5.10.7 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	The IBCF removes previous added codecs from the SDP answer		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the received SDP contains the codecs previous added to the SDP in the INVITE request sent to the other network, it removes this codecs from the codec list before sending the 200 OK INVITE to the own network.		
SIP Parameter values	INVITE1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 1: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 2: m=audio <port number> RTP/AVP 8 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_015	**Reference**	5.10.7 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND NOT PICS 7.2.5/1		
Test Purpose name	No transcoding performed		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and at least one of the codecs contained in the INVITE sent to the other network is present in the response from the other network, no transcoding is performed by the IBCF. The received codec is contained in the 200 OK INVITE response sent to its own network.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 200 OK 1: m=audio <port number> RTP/AVP 0 200 OK 2: m=audio <port number> RTP/AVP 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_016	**Reference**	5.10.7 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	Transcoding performed in the IBCF		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network and the SDP answer does not contain a codec belonging to the offer received in the INVITE from the own network, the IBCF performs transcoding. A 200 OK INVITE is sent to its own network and one of the codecs in the codec list received in the offer from the own network is present in the SDP answer and the m line is not set to a non-zero port value.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 1: m=audio <port number> RTP/AVP <codec1> 200 OK 2: m=audio <port number> RTP/AVP 8 or m=audio <port number> RTP/AVP 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	180 Ringing ←	←	180 Ringing
	200 OK INVITE 2 ←	←	200 OK INVITE 1
	Apply post test routine		

TP number	IBCF_111_017	**Reference**	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Passing of more than one m lines		
Test Purpose	When the IBCF receives an INVITE request from the own network and the SDP contains more than one m lines, an INVITE request is sent to the other network and all received m lines are present in the SDP.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 m=video 3400 RTP/AVP 98 a=rtpmap:98 H263 INVITE 2: m=audio <port number> RTP/AVP 8 0 m=video 3400 RTP/AVP 98 a=rtpmap:98 H263		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 1 →	→	INVITE 2
	Apply post test routine		

TP number	IBCF_111_018	**Reference**	5.10.5 [**1**]
TSS reference	Exit_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Passing of request of resource reservation		
Test Purpose	When the IBCF receives an INVITE request from the own network and preconditions are requested, all requests and responses belonging to the precondition procedure are passed and the relevant SDP content is passed unchanged.		
SIP Parameter values	INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE →	→	INVITE
	183 Session Progress ←	←	183 Session Progress
	PRACK →	→	PRACK
	200 OK PRACK ←	←	200 OK PRACK
	UPDATE →	→	UPDATE
	200 OK UPDATE ←	←	200 OK UPDATE
	Apply post test routine		

6.2 IBCF as an entry point

6.2.1 Registration

TP number	IBCF_201_001	**Reference**	5.10.3.1 3) [**1**]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/2		
Test Purpose name	WWW-Authenticate header is passed unchanged		
Test Purpose	When an IBCF receives a SIP REGISTER request from a trusted domain outside its own network, it forward the request to the own (home) network. If the IBCF receives the 401 Unauthorized final response from the own (home) network the WWW-Authenticate header is unchanged in the forwarded SIP response.		
SIP Parameter values	401 1: WWW-Authenticate 401 2: WWW-Authenticate		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	401 Unauthorized 2 →	→	401 Unauthorized 1

TP number	IBCF_201_002	**Reference**	5.10.3.1 3) [**1**]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/2		
Test Purpose name	The Authorization header is passed unchanged		
Test Purpose	When an IBCF receives a SIP REGISTER request from a trusted domain outside its own network, it forward the request to the own (home) network. The Authorization header remains unchanged in the forwarded SIP request.		
SIP Parameter values	REGISTER 1: Authorization Path Require: path P-Charging-Vector: icid; orig-ioi REGISTER 2: Authorization Path Require: path P-Charging-Vector: icid; orig-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER 2 ←	←	REGISTER 1
	200 OK REGISTER →	→	200 OK REGISTER

TP number	IBCF_201_003	**Reference**	5.10.3.1 3) [**1**]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/2		
Test Purpose name	The P-Associated-URI, Path, Service-Route and P-Charging-Vector headers are passed unchanged		
Test Purpose	When an IBCF receives a SIP 200 OK REGISTER request from its own network, it forwards the request to the other (visited) network. The P-Associated-URI, Path, Service-Route, P-Charging-Vector headers remain unchanged in the forwarded SIP response.		
SIP Parameter values	200 OK 1: P-Associated-URI Path Service-Route P-Charging-Vector: term-ioi Contact 200 OK 2: P-Associated-URI Path Service-Route P-Charging-Vector: term-ioi Contact		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	200 OK REGISTER 1 →	→	200 OK REGISTER 2

TP number	IBCF_201_004	**Reference**	5.10.3.1 3) [**1**]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The Event and Expires header are passed unchanged		
Test Purpose	When an IBCF receives a SIP SUBSCRIBE request from a trusted domain outside its own network, it forward the request to the own (home) network. The Event header and the Expires header remain unchanged in the request.		
SIP Parameter values	SUBSCRIBE 1: Event: reg P-Charging-Vector: icid Expires: 600 000 SUBSCRIBE 2: Event: reg P-Charging-Vector: icid Expires: 600 000		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	The registration procedure was successful		
	SUBSCRIBE ←	←	SUBSCRIBE
	200 OK SUBSCRIBE →	→	200 OK SUBSCRIBE

TP number	IBCF_201_005	**Reference**	5.10.3.1 3) [**1**]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The 'reginfo' body is passed unchanged		
Test Purpose	When an IBCF receives a SIP NOTIFY request from a trusted domain outside its own network, it forward the request to the own (home) network. The Event header and the XML body remain unchanged in the request.		
SIP Parameter values	NOTIFY 1: Event: reg Content-Type: application/reginfo+xml <?xml version="1.0"?> <reginfo xmlns="urn:ietf:params:xml:ns:reginfo" version="1" state="partial"> <registration aor="sip:[*any value*]" id="[*any value*]" state="active"> <contact id="[*any value*]" state="active" event="registered" duration-registered="0"> <uri>sip:[any value]</uri> </contact> </registration> </reginfo> NOTIFY 2: Event: reg Content-Type: application/reginfo+xml <?xml version="1.0"?> <reginfo xmlns="urn:ietf:params:xml:ns:reginfo" version="1" state="partial"> <registration aor="sip:[*any value*]" id="[*any value*]" state="active"> <contact id="[*any value*]" state="active" event="registered" duration-registered="0"> <uri>sip:[any value]</uri> </contact> </registration> </reginfo>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A subscription was successful		
	NOTIFY ←	←	NOTIFY
	200 OK NOTIFY →	→	200 OK NOTIFY

TP number	IBCF_201_006	Reference	5.10.3.1 [1]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/7		
Test Purpose name	The IBCF selects an alternative entry point to the own network if a 3xx was received		
Test Purpose	When an IBCF receives a SIP 3xx (Redirection) response from its own (home) network point to a previously forwarded SIP REGISTER request, it shall select a new Network point and resend the Register request to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to home network		
Message flows	Mx 2 / Mx 1 / SUT / Ic REGISTER ← / ← REGISTER 3xx → / REGISTER ← 200 OK REGISTER → / → 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_201_007	Reference	5.10.3.1 [1]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/7		
Test Purpose name	The IBCF selects an alternative entry point to the own network if a 480 was received		
Test Purpose	When an IBCF receives a SIP 480 Temporarily Unavailable response from its own (home) network point to a previously forwarded SIP REGISTER request, it shall select a new Network point and resend the Register request to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to own network		
Message flows	Mx 2 / Mx 1 / SUT / Ic REGISTER ← / ← REGISTER 480 Temporarily Unavailable → / REGISTER ← 200 OK REGISTER → / → 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_201_008	Reference	5.10.3.1 [1]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.2.1/7		
Test Purpose name	The IBCF selects an alternative entry point to the own network if no response was received		
Test Purpose	When an IBCF receives no response from its own (home) network point to a previously forwarded SIP REGISTER request, it shall select a new Network point and resend the Register request to which it has not previously forwarded the same request.		
SIP Parameter values			
Comments	IUT configured with two entry points to own network		
Message flows	Mx 2 / Mx 1 / SUT / Ic REGISTER ← / ← REGISTER REGISTER ← 200 OK REGISTER → / → 200 OK REGISTER **Apply post test routine**		

TP number	IBCF_201_009	Reference	5.10.3.1 3) [1]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/1		
Test Purpose name	The IBCF sends a 504 if a 480 to a REGISTER request was received		
Test Purpose	If an IBCF receives no response to a SIP REGISTER request from all own network points, it shall send a SIP 504 Server Time-Out response to the P-CSCF.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER →		→ REGISTER
	480 Temporarily Unavailable ←		
			← 504 Server Time-Out

TP number	IBCF_201_010	Reference	5.10.3.1 1) [1]
TSS reference	Entry_Point/reg		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	REGISTER request from a untrusted network received, a 403 is sent		
Test Purpose	When an IBCF receives a SIP REGISTER request from a non-trusted domain outside its own network, it shall send a SIP 403 (Forbidden) response to the sender of the request.		
SIP Parameter values			
Comments	IMS configured as untrusted domain for IUT		
Message flows	**Mx**	**SUT**	**Ic**
			→ REGISTER
			← 403 Forbidden

TP number	IBCF_201_011	Reference	5.10.3.1 1) [1]
TSS reference	Entry_Point/eg		
Selection criteria	NOT PICS 7.2.1/1		
Test Purpose name	REGISTER request from a untrusted network received roaming not supported, a 403 is sent		
Test Purpose	When an IBCF receives a SIP REGISTER request from a trusted domain outside its own network, it shall send a SIP 403 (Forbidden) response to the sender of the request if roaming is not supported in the own network.		
SIP Parameter values			
Comments	IMS configured as untrusted domain for IUT		
Message flows	**Mx**	**SUT**	**Ic**
			→ REGISTER
			← 403 Forbidden

6.2.2 Basic call

TP number	IBCF_202_001	Reference	5.10.3.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A 403 is sent if a 'orig' parameter is present in the Route header in an INVITE request received from an untrusted network		
Test Purpose	When an IBCF receives any SIP INVITE request, from a non-trusted domain and the topmost Route header in the request contains the 'orig' parameter, the IBCF shall send a SIP 403 (Forbidden) response to the originator of the request.		
SIP Parameter values	INVITE topmost **Route** header 'orig' parameter		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
			→ INVITE
			← 403 Forbidden
	Apply post test routine		

TP number	IBCF_202_002	**Reference**	5.10.3.2 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields omitted from the INVITE request received from an untrusted network		
Test Purpose	When an IBCF receives any SIP INVITE request, from a non-trusted domain and the topmost Route header in the request does not contain the 'orig' parameter, the IBCF shall remove all P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields the request.		
SIP Parameter values	INVITE 1 topmost **Route** header 'orig' parameter **not present** P-Charging-Vector P-Charging-Function-Addresses INVITE 2: topmost **Route** header		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_202_003	**Reference**	5.10.3.2 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A 403 is sent if a 'orig' parameter is present in the Route header in a MESSAGE request received from an untrusted network		
Test Purpose	When an IBCF receives any SIP MESSAGE request, from a non-trusted domain and the topmost Route header in the request contains the 'orig' parameter, the IBCF shall send a SIP 403 (Forbidden) response to the originator of the request.		
SIP Parameter values	MESSAGE topmost Route header 'orig' parameter		
Comments			
Message flows	**Mx** **SUT** **Ic** ← MESSAGE → 403 Forbidden **Apply post test routine**		

TP number	IBCF_202_004	**Reference**	5.10.3.2 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields omitted from the MESSAGE request received from an untrusted network		
Test Purpose	When an IBCF receives any SIP MESSAGE request, from a non-trusted domain and the topmost Route header in the request does not contain the 'orig' parameter, the IBCF shall remove all P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields the request.		
SIP Parameter values	MESSAGE 1 topmost **Route** header 'orig' parameter **not present** P-Charging-Vector P-Charging-Function-Addresses MESSAGE 2: topmost **Route** header		
Comments			
Message flows	**Mx** **SUT** **Ic** MESSAGE 2 ← ← MESSAGE 1 **Apply post test routine**		

TP number	IBCF_202_005	**Reference**	5.10.3.2 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields omitted from an unknown request received from an untrusted network		
Test Purpose	When an IBCF receives any unknown SIP request, from a non-trusted domain and the topmost Route header in the request contains the orig parameter, the IBCF shall send a SIP 403 (Forbidden) response to the originator of the request.		
SIP Parameter values	[unknown] topmost Route header 'orig' parameter		
Comments			
Message flows	**Mx** **SUT** **Ic** ← [unknown] → 403 Forbidden **Apply post test routine**		

TP number	IBCF_202_006	**Reference**	5.10.3.2 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A 403 is sent if a 'orig' parameter is present in the Route header in an unknown request received from an untrusted network		
Test Purpose	When an IBCF receives any unknown SIP request, from a non-trusted domain and the topmost Route header in the request does not contain the orig parameter, the IBCF shall remove all P-Charging-Vector header fields and all P-Charging-Function-Addresses header fields the request.		
SIP Parameter values	[unknown]1 topmost **Route** header 'orig' parameter **not present** P-Charging-Vector P-Charging-Function-Addresses [unknown] 2: topmost **Route** header		
Comments			
Message flows	**Mx** **SUT** **Ic** [unknown] 2 ← ← [unknown] 1 **Apply post test routine**		

TP number	IBCF_202_007	**Reference**	5.10.3.2 1 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	INVITE received, a 100 Trying is sent		
Test Purpose	When an IBCF receives a SIP INVITE request, from the other network, the IBCF responds with a 100 Trying.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE → 100 Trying **Apply post test routine**		

TP number	IBCF_202_008	Reference	5.10.3.2, paragraph 10 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/5		
Test Purpose name	A Session-Expires header is inserted		
Test Purpose	When the IBCF receives an INVITE request and the IBCF requires the periodic refreshment of the session it shall add a Session-Expires header prior to forwarding it to the own network.		
SIP Parameter values	**INVITE** 2: Session-Expires: <configured value>		
Comments			
Message flows	**Mx** / **SUT** / **Ic** ← INVITE 1 INVITE 2 ← / → 100 Trying **Apply post test routine**		

TP number	IBCF_202_009	Reference	4.4.6 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2		
Test Purpose name	A Reason header is passed in a SIP response		
Test Purpose	When an IBCF receives a response from within its own network and a Reason header field as indicated in table 6.2.2-1 is present, it leaves the Reason header fields in the SIP response if the other network is trusted.		
SIP Parameter values	SIP_response 1: Reason: Q.850;cause=**Response_cause** SIP_response 2: Reason: Q.850;cause=**Response_cause**		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← / ← INVITE SIP_response 1 → / → SIP_response 2 ACK ← / ← ACK		

TP number	IBCF_202_010	Reference	4.4.6 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	A Reason header is removed from a SIP response if the other network in untrusted		
Test Purpose	When an IBCF receives a response from within its own network and a Reason header field is present, it removes the Reason header fields from the SIP response as indicated in table 6.2.2-1 if the other network is untrusted.		
SIP Parameter values	SIP_response 1: Reason: Q.850;cause=**Response_cause** SIP_response 2:		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← / ← INVITE SIP_response 1 → / → SIP_response 2 ACK ← / ← ACK		

Table 6.2.2-1: Receipt of the Reason header in response

Response_cause	← SIP_response
	Status code Reason header
VA_01	404 Not Found Reason: Q.850; cause=1 (unallocated (unassigned) number)
VA_02	500 Server Internal error Reason: Q.850; cause=2 (no route to network)
VA_03	500 Server Internal error Reason: Q.850; cause=3 (no route to destination)
VA_04	500 Server Internal error Reason: Q.850; cause=4 (Send special information tone)
VA_05	404 Not Found Reason: Q.850; cause=5 (Misdialled trunk prefix)
VA_06	486 Busy Here Reason: Q.850; cause=17 (user busy)
VA_07	480 Temporarily unavailable Reason: Q.850; cause=18 (no user responding)
VA_08	480 Temporarily unavailable Reason: Q.850; cause=19 (no answer from the user)
VA_09	480 Temporarily unavailable Reason: Q.850; cause=20 (subscriber absent)
VA_10	603 Decline Reason: Q.850; cause=21 (call rejected)
VA_11	480Temporarily unavailable Reason: Q.850; cause=21 (call rejected)
VA_12	410 Gone Reason: Q.850; cause=22 (number changed)
VA_13	433 Anonymity Disallowed Reason: Q.850; cause=24 (call rejected due to ACR supplementary service)
VA_14	483 Too many hops Reason: Q.850; cause=25 (Exchange routing error)
VA_15	480 Temporarily unavailable Reason: Q.850; cause=26 (Non-selected user clearing)
VA_16	502 Bad Gateway Reason: Q.850; cause=27 (destination out of order)
VA_17	484 Address Incomplete Reason: Q.850; cause=28 invalid number format (address incomplete)
VA_18	500 Server Internal error Reason: Q.850; cause=29 (facility rejected)
VA_19	480 Temporarily unavailable Reason: Q.850; cause=31 (normal unspecified)
VA_20	486 Busy here Reason: Q.850; cause=34 (No circuit/channel available)
VA_21	480 Temporarily unavailable Reason: Q.850; cause=34 (No circuit/channel available)
VA_22	500 Server Internal error Reason: Q.850; cause=41 (Temporary failure)
VA_23	500 Server Internal error Reason: Q.850; cause=50 (requested facility no subscribed)
VA_24	603 Decline Reason: Q.850; cause=55 (Incoming class barred within Closed User Group)
VA_25	403 Forbidden Reason: Q.850; cause=57 (bearer capability not authorized)
VA_26	500 Server Internal error Reason: Q.850; cause=58 (bearer capability not presently)
VA_27	500 Server Internal error Reason: Q.850; cause=63 (service option not available, unspecified)

Response_cause	← SIP_response
	Status code Reason header
VA_28	500 Server Internal error Reason: Q.850; cause=65 (Bearer capability not implemented)
VA_29	403 Forbidden Reason: Q.850; cause=87 (User not member of Closed User Group)
VA_30	500 Server Internal error Cause value No 88 (incompatible destination)
VA_31	403 Forbidden Reason: Q.850; cause=90 (Non existing Closed User Group)
VA_32	500 Server Internal error Reason: Q.850; cause=91 (invalid transit network selection)
VA_33	500 Server Internal error Reason: Q.850; cause=95 (invalid message)
VA_34	501 Not Implemented Reason: Q.850; cause=97 (Message type non-existent or not implemented)
VA_35	501 Not Implemented Reason: Q.850; cause=99 (information element/parameter non-existent or not implemented))
VA_36	480 Temporarily unavailable Reason: Q.850; cause=102 (recovery on timer expiry)
VA_37	501 Not Implemented Reason: Q.850; cause=110 (Message with unrecognised Parameter, discarded)
VA_38	500 Server Internal error Reason: Q.850; cause=111 (protocol error, unspecified)
VA_39	500 Server Internal error Reason: Q.850; cause=127 (interworking unspecified)

TP number	IBCF_202_011	**Reference**	4.4.8 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/4		
Test Purpose name	The P-Profile-Key header field is passed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Profile-Key header field is present, the INVITE is forwarded to the own network and the P-Profile-Key header field is left in the request.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion>		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_012	**Reference**	4.4.8 [**1**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/4		
Test Purpose name	The P-Profile-Key header field is removed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Profile-Key header field is present, the INVITE is forwarded to the own network and the P-Profile-Key header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_013	Reference	4.4.8 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P-Profile-Key header field is removed if the other network is untrusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other untrusted network and a P-Profile-Key header field is present, the INVITE is forwarded to the own network and the P-Profile-Key header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Profile-Key: <sip:*Wildcarded Public Service Identity*@Hostportion> INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_014	Reference	4.4.8 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/5		
Test Purpose name	The P-Served-User header field is passed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Served-User header field is present, the INVITE is forwarded to the own network and the P-Served-User header field is left in the request.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_015	Reference	4.4.8 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/5		
Test Purpose name	The P-Served-User header field is removed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Served-User header field is present, the INVITE is forwarded to the own network and the P-Served-User header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_016	Reference	4.4.8 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P-Served-User header field is removed if the other network is untrusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other untrusted network and a P-Served-User header field is present, the INVITE is forwarded to the own network and the P-Served-User header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Served-User: <sip:*user@example.com*>; sescase=orig; regstate=reg INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_017	Reference	4.4.10 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2		
Test Purpose name	The P-Private-Network-Indication header field is passed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P P-Private-Network-Indication header field is present, the INVITE is forwarded to the own network and the P-Private-Network-Indication header field is left in the request.		
SIP Parameter values	INVITE 1: P-Private-Network-Indication: [any URI] INVITE 2: P-Private-Network-Indication: [any URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_018	Reference	4.4.10 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P-Private-Network-Indication header field is removed if the other network is untrusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other untrusted network and a P-Private-Network-Indication header field is present, the INVITE is forwarded to the own network and the P-Private-Network-Indication header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Private-Network-Indication: [any URI] INVITE 2:		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE 1 INVITE 2 ← → 100 Trying **Apply post test routine**		

TP number	IBCF_202_019	Reference	4.4.5 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.1/2		
Test Purpose name	The P- P-Asserted-Service header field is removed if the other network is untrusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other untrusted network and a P-Asserted-Service header field is present, the INVITE is forwarded to the own network and the P-Asserted-Service header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		←	INVITE 1
	INVITE 2 ←	→	100 Trying
	Apply post test routine		

TP number	IBCF_202_020	Reference	4.4.5 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND PICS 7.2.2/6		
Test Purpose name	The P- P-Asserted-Service header field is removed if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Asserted-Service header field is present, the INVITE is forwarded to the own network and the P-Asserted-Service header field is removed from the request.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		←	INVITE 1
	INVITE 2 ←	→	100 Trying
	Apply post test routine		

TP number	IBCF_202_021	Reference	4.4.5 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.2.1/2 AND NOT PICS 7.2.2/6		
Test Purpose name	The P- P-Asserted-Service header field is left if the other network is trusted		
Test Purpose	When the IBCF receives an initial INVITE request from the other trusted network and a P-Asserted-Service header field is present, the INVITE is forwarded to the own network and the P-Asserted-Service header field is present in the request.		
SIP Parameter values	INVITE 1: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2: P-Asserted-Service: urn:urn-7:3gpp-service.exampletelephony.version1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		←	INVITE 1
	INVITE 2 ←	→	100 Trying
	Apply post test routine		

TP number	IBCF_202_022	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/7 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the INVITE request sent to the own network.		
SIP Parameter values	INVITE 1: INVITE 2: P-Early-Media:supported		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_202_023	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/8 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the 180 Ringing response sent to the other network.		
SIP Parameter values	180 Ringing 1: 180 Ringing 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_202_024	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/8 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media not received IBCF adds a P-Early-Media header to the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the own network and no P-Early-Media header is present, ensure that a P-Early-Media header is included in the 183 Session Progress response sent to the other network.		
SIP Parameter values	183 Session Progress 1: 183 Session Progress 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	183 Session Progress 1 →	→	183 Session Progress 2
	Apply post test routine		

TP number	IBCF_202_025	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/9 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header from the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the INVITE request sent to the own network.		
SIP Parameter values	INVITE 1: P-Early-Media: supported INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_202_026	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/10 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header from the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the 180 Ringing response sent to the other network.		
SIP Parameter values	180 Ringing 1: P-Early-Media: “sendrecv" 180 Ringing 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_202_027	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/10 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF removes the P-Early-Media header from the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the own network and a P-Early-Media header is present, ensure that the P-Early-Media header is removed from the 183 Session Progress response sent to the other network.		
SIP Parameter values	183 Session Progress 1: P-Early-Media: “sendrecv" 183 Session Progress 12:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	183 Session Progress 1 →	→	183 Session Progress 2
	Apply post test routine		

TP number	IBCF_202_028	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/11 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF modifies the P-Early-Media header in the 180 response		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network and a P-Early-Media header is present, ensure that the P-Early-Media header is modified in the 180 Ringing response sent to the other network.		
SIP Parameter values	180 Ringing 1: P-Early-Media: 180 Ringing 2: P-Early-Media: Not equal to the received value		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_202_029	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/11 AND PICS 7.1.1/2		
Test Purpose name	P-Early-Media received IBCF modifies the P-Early-Media header in the 183 response		
Test Purpose	When the IBCF receives a 183 Session Progress response from the own network and a P-Early-Media header is present, ensure that the P-Early-Media header is modified in the 183 Session Progress response sent to the other network.		
SIP Parameter values	183 Session Progress 1: P-Early-Media: Not equal to 183 Session Progress 2: P-Early-Media:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	183 Session Progress →	→	183 Session Progress
	Apply post test routine		

TP number	IBCF_202_030	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/21		
Test Purpose name	P-Asserted-Identity not received IBCF adds a P-Asserted-Identity to an INVITE request		
Test Purpose	When the IBCF receives an INVITE request from the other network and no P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included in the INVITE request sent to the own network.		
SIP Parameter values	INVITE 1: INVITE 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_202_031	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/21 AND PICS 7.2.2/22		
Test Purpose name	P-Asserted-Identity received IBCF replaces the P-Asserted-Identity in an INVITE request		
Test Purpose	When the IBCF receives an INVITE request from the other network and a P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included and the received P-Asserted-Identity is removed in the INVITE request sent to the own network.		
SIP Parameter values	INVITE 1: P-Asserted-Identity: <[any URI]> INVITE 2: P-Asserted-Identity: <[network specific URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_202_032	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/22		
Test Purpose name	P-Asserted-Identity received IBCF omits the P-Asserted-Identity from the INVITE request		
Test Purpose	When the IBCF receives an INVITE request from the other network and a P-Asserted-Identity is present, ensure that the received P-Asserted-Identity header is omitted from the INVITE request sent to the own network.		
SIP Parameter values	INVITE 1: P-Asserted-Identity: <[any URI]> INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_202_033	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria	PICS 7.2.2/21 AND PICS 7.2.2/22		
Test Purpose name	P-Asserted-Identity received IBCF replaces the P-Asserted-Identity in an INFO request		
Test Purpose	When the IBCF receives an INFO request from the other network and a P-Asserted-Identity is present, ensure that a network specific P-Asserted-Identity is included and the received P-Asserted-Identity is removed in the INFO request sent to the own network.		
SIP Parameter values	INFO 1: P-Asserted-Identity: <[any URI]> INFO 2: P-Asserted-Identity: <[network specific URI]>		
Comments	The INFO request sent to the other network contains a XML mcid McidRequestIndicator element		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	INFO →	→	INFO
	200 OK INFO ←	←	200 OK INFO
	 INFO 2 ←	←	INFO 1
	200 OK INFO →	→	200 OK INFO
	Apply post test routine		

TP number	IBCF_202_034	Reference	5.10.2 [1], 16.6 [19]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network forwards the message to the own network after having inserted in first position a Via header set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	INVITE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] INVITE 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_202_035	**Reference**	5.10.2 [**1**], 16.4 [**19**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the ACK		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the own network forwards the message to the other network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	ACK 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] ACK 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK 1 ←	←	ACK 1
	Apply post test routine		

TP number	IBCF_202_036	**Reference**	5.10.2 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the CANCEL		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the other network forwards the message to the own network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	CANCEL 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] CANCEL 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	CANCEL 2 ←	←	CANCEL 1
	Apply post test routine		

TP number	IBCF_202_037	**Reference**	5.10.2 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/bcall		
Selection criteria	NOT PICS 7.1.1/2		
Test Purpose name	A Via header is added in the BYE		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the other network forwards the message to the own network after having inserted in first position a Via header - set to its location with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter beginning with "z9hG4bK" - to the received list of Via headers.		
SIP Parameter values	BYE 1: VIA: SIP/2.0/[transport] [any URI 1];branch=[any value] BYE 2: VIA: SIP/2.0/[transport] [URI of IBCF];branch= z9hG4bK[any value] VIA: SIP/2.0/[transport] [any URI 1];branch=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	BYE 2 ←	←	BYE 1
	Apply post test routine		

TP number	IBCF_202_038	Reference	5.10.2 [1], 16.4 [19]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in ACK		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the other network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the own network.		
SIP Parameter values	ACK 1: Route: <sip:[URI of IBCF];lr> Route: <sip:[any URI];lr> ACK 2: Route: <sip:[any URI];lr>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK 1 ←	←	ACK 1
	Apply post test routine		

TP number	IBCF_202_039	Reference	5.10.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	ACK without Route header received		
Test Purpose	Ensure that the IUT on receipt of an ACK request from the other network without a Route header, forwards the message to the address in the Request-URI in the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_202_040	Reference	5.10.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in CANCEL		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the other network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the own network.		
SIP Parameter values	CANCEL 1: Route: <sip:[URI of IBCF]>;lr Route: <sip:[any URI]>;lr CANCEL 2: Route: <sip:[any URI]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	CANCEL 2 ←	←	CANCEL 1
	Apply post test routine		

TP number	IBCF_202_041	Reference	5.10.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	CANCEL without Route header received		
Test Purpose	Ensure that the IUT on receipt of a CANCEL request from the other network without a Route header, forwards the message to the address in the Request-URI in the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	CANCEL ←	←	CANCEL
	Apply post test routine		

TP number	IBCF_202_042	Reference	5.10.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	The Route header of the IBCF is removed from the top of Route headers in BYE		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the other network including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message to the own network.		
SIP Parameter values	BYE 1:Route: <sip:[URI of IBCF]>;lr Route: <sip:[any URI]>;lr BYE 2:Route: <sip:[any URI]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	BYE 2 ←	←	BYE 1
	Apply post test routine		

TP number	IBCF_202_043	Reference	5.10.6.2 [1]
TSS reference	Entry_Point/bcall		
Selection criteria			
Test Purpose name	BYE without Route header received		
Test Purpose	Ensure that the IUT on receipt of a BYE request from the other network without a Route header, forwards the message to the address in the Request-URI in the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE ←	←	200 OK INVITE
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE
	Apply post test routine		

6.2.3 Screening of SIP signalling

6.2.3.1 Basic call requirements

TP number	IBCF_203_001	**Reference**	Annex A [**3**]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Accept header, ensure that an INVITE request is sent to the own network and the Accept header is present as received from the other network.		
SIP Parameter values	INVITE: Accept: multipart/mixed		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_002	**Reference**	Annex A [**3**]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing an Accept header, ensure that a 200 OK INVITE response is sent to the other network and the Accept header is present as received from the own network.		
SIP Parameter values	200 OK: Accept: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_003	**Reference**	Annex A [**3**]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Accept header, ensure that a BYE request is sent to the own network and the Accept header is present as received from the other network.		
SIP Parameter values	INVITE: Accept: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_004	**Reference**	Annex A [**3**]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Accept-Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Accept-Contact header, ensure that an INVITE request is sent to the own network and the Accept-Contact header is present as received from the other network.		
SIP Parameter values	INVITE: Accept-Contact: * mobility="mobile";language="en,de"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_005	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Accept-Contact header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Accept-Contact header, ensure that a BYE request is sent to the own network and the Accept-Contact header is present as received from the other network.		
SIP Parameter values	BYE: Accept-Contact: *;mobility="fixed"; language="en,de"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_006	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Accept-Encoding header, ensure that an INVITE request is sent to the own network and the Accept-Encoding header is present as received from the other network.		
SIP Parameter values	INVITE: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_007	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing an Accept-Encoding header, ensure that a 200 OK INVITE response is sent to the other network and the Accept-Encoding header is present as received from the own network.		
SIP Parameter values	200 OK: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_008	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Encoding header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Accept-Encoding header, ensure that a BYE request is sent to the own network and the Accept-Encoding header is present as received from the other network.		
SIP Parameter values	BYE: Accept-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_009	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Accept-Language header, ensure that an INVITE request is sent to the own network and the Accept-Language header is present as received from the other network.		
SIP Parameter values	INVITE: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_010	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the other network containing an Accept-Language header, ensure that a 200 OK INVITE response is sent to the own network and the Accept-Language header is present as received from the other network.		
SIP Parameter values	200 OK: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_011	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Accept-Language header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Accept-Language header, ensure that a BYE request is sent to the own network and the Accept-Language header is present as received from the other network.		
SIP Parameter values	BYE: Accept-Language: en, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_012	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Allow header, ensure that an INVITE request is sent to the own network and the Allow header is present as received from the other network.		
SIP Parameter values	INVITE: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_013	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing an Allow header, ensure that a 180 Ringing response is sent to the other network and the Allow header is present as received from the own network.		
SIP Parameter values	180: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_014	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing an Allow header, ensure that a 200 OK INVITE response is sent to the other network and the Allow header is present as received from the own network.		
SIP Parameter values	200 OK: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_015	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Allow header, ensure that a BYE request is sent to the own network and the Allow header is present as received from the other network.		
SIP Parameter values	BYE: Allow: INVITE, ACK, CANCEL, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

.TP number	IBCF_203_016	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing an Allow header, ensure that a 200 OK BYE response is sent to the other network and the Allow header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Allow: INVITE, ACK, CANCEL, OPTIONS, BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_017	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Allow-Events header, ensure that an INVITE request is sent to the own network and the Allow-Events header is present as received from the other network.		
SIP Parameter values	INVITE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_018	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in 200 OK		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing an Allow-Events header, ensure that a 200 OK INVITE response is sent to the other network and the Allow-Events header is present as received from the own network.		
SIP Parameter values	200 OK: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_019	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing an Allow-Events header, ensure that a BYE request is sent to the own network and the Allow-Events header is present as received from the other network.		
SIP Parameter values	BYE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_020	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Allow-Events header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing an Allow-Events header, ensure that a 200 OK BYE response is sent to the other network and the Allow-Events header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Allow-Events: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_021	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Call-ID header, ensure that an INVITE request is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	INVITE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

0TP number	IBCF_203_022	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Call-ID header, ensure that a 180 Ringing response is sent to the other network and the Call-ID header is present as received from the own network.		
SIP Parameter values	180: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_023	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Call-ID header, ensure that a 200 OK INVITE response is sent to the network and the Call-ID header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_024	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Call-ID header, ensure that an ACK request is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	ACK: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_025	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Call-ID header, ensure that a BYE request is sent to the own network and the Call-ID header is present as received from the other network.		
SIP Parameter values	BYE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
		Apply post test routine	

TP number	IBCF_203_026	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-ID header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Call-ID header, ensure that a 200 OK BYE response is sent to the other network and the Call-ID header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Call-ID: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_027	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Call-Info header, ensure that an INVITE request is sent to the own network and the Call-Info header is present as received from the other network.		
SIP Parameter values	INVITE: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
		Apply post test routine	

TP number	IBCF_203_028	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Call-Info header, ensure that a 180 Ringing response is sent to the other network and the Call-Info header is present as received from the own network.		
SIP Parameter values	180: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
		Apply post test routine	

TP number	IBCF_203_029	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Call-Info header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Call-Info header, ensure that a 200 OK INVITE response is sent to the other network and the Call-Info header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Call-Info: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_030	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Contact header, ensure that an INVITE request is sent to the own network and the Contact header is present as received from the other network.		
SIP Parameter values	INVITE: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_031	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Contact header, ensure that a 180 Ringing response is sent to the other network and the Contact header is present as received from the own network.		
SIP Parameter values	180: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_032	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Contact header, ensure that a 200 OK INVITE response is sent to the other network and the Contact header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Contact: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_033	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Contact header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Contact header, ensure that an ACK request is sent to the own network and the Contact header is present as received from the other network.		
SIP Parameter values	ACK: Contact: <[any URI]>		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_036	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Content-Disposition header, ensure that an INVITE request is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_037	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Content-Disposition header, ensure that a 180 Ringing response is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	180: Content-Disposition: session; handling=optional		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_038	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Content-Disposition header, ensure that 200 OK INVITE response is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_039	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Content-Disposition header, ensure that an ACK request is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	ACK: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_040	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Content-Disposition header, ensure that a BYE request is sent to the own network and the Content-Disposition header is present as received from the other network.		
SIP Parameter values	BYE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_041	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Disposition header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Content-Disposition header, ensure that 200 OK BYE response is sent to the other network and the Content-Disposition header is present as received from the own network.		
SIP Parameter values	INVITE: Content-Disposition: session; handling=optional		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_042	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Content-Encoding header, ensure that an INVITE request is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_043	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Content-Encoding header, ensure that a 180 Ringing response is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	180: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_044	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Content-Encoding header, ensure that a 200 OK INVITE response is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_045	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Content-Encoding header, ensure that an ACK request is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	ACK: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_046	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Content-Encoding header, ensure that a BYE request is sent to the own network and the Content-Encoding header is present as received from the other network.		
SIP Parameter values	BYE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_047	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Encoding header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Content-Encoding header, ensure that a 200 OK BYE response is sent to the other network and the Content-Encoding header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Content-Encoding: gzip		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_048	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Content-Language header, ensure that an INVITE request is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_049	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Content-Language header, ensure that a 180 Ringing response is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	180: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_050	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Content-Language header, ensure that a 200 OK INVITE response is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_051	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Content-Language header, ensure that an ACK request is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	ACK: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_052	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Content-Language header, ensure that a BYE request is sent to the own network and the Content-Language header is present as received from the other network.		
SIP Parameter values	BYE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_053	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Language header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Content-Language header, ensure that a 200 OK BYE response is sent to the other network and the Content-Language header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Content-Language: fr, de		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_054	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Content-Length header, ensure that an INVITE request is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_055	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Content-Length header, ensure that a 180 Ringing response is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	INVITE: SDP 1 180: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_056	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Content-Length header, ensure that a 200 OK INVITE response is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	INVITE: SDP 1 200 OK INVITE: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_057	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Content-Length header, ensure that an ACK request is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	200 OK: SDP 1 ACK: Content-Length: [any value] SDP 2		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_058	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Content-Length header, ensure that a BYE request is sent to the own network and the Content-Length header is present as received from the other network.		
SIP Parameter values	BYE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	← BYE	
	Apply post test routine		

TP number	IBCF_203_059	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Length header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Content-Length header, ensure that a 200 OK BYE response is sent to the other network and the Content-Length header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Content-Length: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	← BYE	
	200 OK BYE →	→ 200 OK BYE	

TP number	IBCF_203_060	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Content-Type header, ensure that an INVITE request is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	INVITE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	← INVITE	
	Apply post test routine		

TP number	IBCF_203_061	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Content-Type header, ensure that a 180 Ringing response is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	180: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	← INVITE	
	180 Ringing →	→ 180 Ringing	
	Apply post test routine		

TP number	IBCF_203_062	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Content-Type header, ensure that a 200 OK INVITE response is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_063	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Content-Type header, ensure that an ACK request is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	ACK: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_064	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Content-Type header, ensure that a BYE request is sent to the own network and the Content-Type header is present as received from the other network.		
SIP Parameter values	BYE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_065	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Content-Type header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Content-Type header, ensure that a 200 OK BYE response is sent to the other network and the Content-Type header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Content-Type: application/sdp		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE
	Apply post test routine		

TP number	IBCF_203_066	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Cseq header, ensure that an INVITE request is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	INVITE: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_067	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Cseq header, ensure that a 180 Ringing response is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	180: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_068	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Cseq header, ensure that a 200 OK INVITE response is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Cseq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_069	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Cseq header, ensure that an ACK request is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	ACK: Cseq: [any value] ACK		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_070	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in BYE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Cseq header, ensure that an INVITE request is sent to the own network and the Cseq header is present as received from the other network.		
SIP Parameter values	BYE: Cseq: [any value] BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_071	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Cseq header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Cseq header, ensure that a 200 OK BYE response is sent to the other network and the Cseq header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Cseq: [any value] BYE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_072	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Date header, ensure that an INVITE request is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	INVITE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_073	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Date header, ensure that a 180 Ringing response is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	180: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_074	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Date header, ensure that a 200 OK INVITE response is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_075	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Date, ensure that an ACK request is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	ACK: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_076	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Date, ensure that a BYE request is sent to the own network and the Date header is present as received from the other network.		
SIP Parameter values	BYE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_077	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Date header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Date header, ensure that a 200 OK BYE response is sent to the other network and the Date header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Date: Wen, 23 Mar 2011 13:03:00 GMT		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_078	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Expires header, ensure that an INVITE request is sent to the own network and the Expires header is present as received from the other network.		
SIP Parameter values	INVITE: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_079	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing an Expires header, ensure that a 180 Ringing response is sent to the other network and the Expires header is present as received from the own network.		
SIP Parameter values	180: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_080	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Expires header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Expires header, ensure that a 200 OK INVITE response is sent to the other network and the Expires header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Expires: 3600		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_081	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Event header supported in SUBCRIBE		
Test Purpose	When the IBCF receives a SUBSRIBE request from the other network containing an Event header, ensure that a SUBSCRIBE request is sent to the own network and the Event header is present as received from the other network.		
SIP Parameter values	SUBSRIBE: Event: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBSRIBE ←	←	SUBSRIBE
	Apply post test routine		

TP number	IBCF_203_082	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Event header supported in NOTIFY		
Test Purpose	When the IBCF receives a NOTIFY request from the other network containing an Event header, ensure that a NOTIFY request is sent to the own network and the Event header is present as received from the other network.		
SIP Parameter values	NOTIFY: Event: call-completion		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY ←	←	NOTIFY
	Apply post test routine		

TP number	IBCF_203_083	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a From header, ensure that an INVITE request is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	INVITE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_084	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a From header, ensure that a 180 Ringing response is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	180: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_085	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a From header, ensure that a 200 OK INVITE response is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_086	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a From header, ensure that an ACK request is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	ACK: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_087	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a From header, ensure that a BYE request is sent to the own network and the From header is present as received from the other network.		
SIP Parameter values	BYE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_088	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	From header supported 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a From header, ensure that a 200 OK BYE response is sent to the other network and the From header is present as received from the own network.		
SIP Parameter values	200 OK BYE: From: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_089	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Geolocation header, ensure that an INVITE request is sent to the own network and the Geolocation header is present as received from the other network.		
SIP Parameter values	INVITE: Geolocation: <sip:[any URI]>; inserted-by=[any host-ID value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_090	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Geolocation header, ensure that a BYE request is sent to the own network and the Geolocation header is present as received from the other network.		
SIP Parameter values	BYE: Geolocation: <sip:[any URI]>; inserted-by=[any host-ID value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE
	Apply post test routine		

TP number	IBCF_203_091	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Geolocation-Error header, ensure that a 180 Ringing response is sent to the other network and the Geolocation-Error header is not present.		
SIP Parameter values	180: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE
	Apply post test routine		

TP number	IBCF_203_092	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Geolocation-Error header, ensure that a 200 OK INVITE response is sent to the other network and the Geolocation-Error header is not present.		
SIP Parameter values	200 OK INVITE: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_093	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/19		
Test Purpose name	Geolocation-Error header not supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Geolocation-Error header, ensure that a BYE request is sent to the own network and the Geolocation-Error header is not present.		
SIP Parameter values	200 OK BYE: Geolocation-Error: 100		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_094	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Max-Breadth header, ensure that an INVITE request is sent to the own network and the Max-Breadth header is not present.		
SIP Parameter values	INVITE 1: Max-Breadth: 10 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_095	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Max-Breadth header, ensure that an ACK request is sent to the own network and the Max-Breadth header is not present.		
SIP Parameter values	ACK 1: Max-Breadth: 10 ACK 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_096	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Breadth header not supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Max-Breadth header, ensure that a BYE request is sent to the own network and the Max-Breadth header is not present as received from the own network.		
SIP Parameter values	BYE 1:Max-Breadth: 10 BYE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_097	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Max-Forwards header, ensure that an INVITE request is sent to the own network and the Max-Forwards header is.		
SIP Parameter values	INVITE: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_098	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Max-Forwards header, ensure that an ACK request is sent to the own network and the Max-Forwards header is present.		
SIP Parameter values	ACK: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_099	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Max-Forwards header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Max-Forwards header, ensure that a BYE request is sent to the own network and the Max-Forwards header is present.		
SIP Parameter values	BYE: Max-Forwards: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_100	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Min-Expires header supported		
Test Purpose	When the IBCF receives a 423 Interval Too Brief response from the own (home) network containing a Min-Expires header upon sent a REGISTER request to the own (home) network, ensure that the 423 Interval Too Brief response is sent to the other (visited) network and the Min-Expires header is present as received from the own network.		
SIP Parameter values	423: Min-Expires: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	423 Interval Too Brief →	→	423 Interval Too Brief

TP number	IBCF_203_101	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing an Organization header, ensure that an INVITE request is sent to the own network and the Organization header is present as received from the other network.		
SIP Parameter values	INVITE: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_102	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing an Organization header, ensure that a 180 Ringing response is sent to the other network and the Organization header is present as received from the own network.		
SIP Parameter values	180: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_103	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Organization header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Organization header, ensure that a 200 OK INVITE response is sent to the other network and the Organization header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Organization: "ETSI-INT"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_104	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is supported in 180		
Test Purpose	When the IBCF sends a 180 Ringing response to the other network, ensure that the P-Charging-Vector is present as received from the own network.		
SIP Parameter values	180: P-Charging-Vector: icid; orig-ioi; term-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_105	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is supported in 200 OK INVITE		
Test Purpose	When the IBCF sends a 200 OK INVITE response to the other network, ensure that the P-Charging-Vector is present as received from the own network.		
SIP Parameter values	200 OK INVITE: P-Charging-Vector: icid; orig-ioi; term-ioi		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_106	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is not supported in 180		
Test Purpose	When the IBCF sends a 180 Ringing response to the other network, ensure that the P-Charging-Vector is not present.		
SIP Parameter values	180 1: P-Charging-Vector: icid; orig-ioi; term-ioi 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_203_107	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.2/3		
Test Purpose name	The P-Charging-Vector header is not supported in 200 OK INVITE		
Test Purpose	When the IBCF sends a 200 OK INVITE response to the other network, ensure that the P-Charging-Vector is not present.		
SIP Parameter values	200 OK INVITE 1: P-Charging-Vector: icid; orig-ioi; term-ioi 200 OK INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_203_108	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-Media-Authorization header, ensure that an INVITE request is sent to the own network and the P-Media-Authorization header is not present.		
SIP Parameter values	INVITE 1: P-Media-Authorization: 001d56ad781f INVITE 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_109	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in 183		
Test Purpose	When the IBCF receives a 183 Session Progress response from the own network containing a P-Media-Authorization header, ensure that a 183 Session Progress response is sent to the other network and the P-Media-Authorization header is not present.		
SIP Parameter values	183 1: P-Media-Authorization: 001d56ad781f 183 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	183 Session Progress 1 →	→	183 Session Progress 2
	Apply post test routine		

TP number	IBCF_203_110	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Media-Authorization header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a P-Media-Authorization header, ensure that a 200 OK INVITE response is sent to the other network and the P-Media-Authorization header is not present.		
SIP Parameter values	200 OK INVITE 1: P-Media-Authorization: 001d56ad781f 200 OK INVITE 2:		
Comments	The P-Media-Authorization header is combined with the resource reservation procedure		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	183 Session Progress →	→	183 Session Progress
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_203_111	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-Preferred-Identity header, ensure that an INVITE request is sent to the own network and the P-Preferred-Identity header is not present.		
SIP Parameter values	INVITE 1: P-Preferred-Identity: <[any URI]> INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_203_112	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a P-Preferred-Identity header, ensure that a 180 Ringing response is sent to the other network and the P-Preferred-Identity header is not present.		
SIP Parameter values	180 1: P-Preferred-Identity: <[any URI]> 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_203_113	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Identity header not supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a P-Preferred-Identity header, ensure that a 200 OK INVITE response is sent to the other network and the P-Preferred-Identity header is not present.		
SIP Parameter values	200 OK INVITE 1: P-Preferred-Identity: <[any URI]> 200 OK INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_203_114	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-Preferred-Service header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-Preferred-Service header, ensure that an INVITE request is sent to the own network and the P-Preferred-Service header is not present.		
SIP Parameter values	INVITE 1: P-Preferred-Service: urn:urn-7:3gpp-service.exampletelephony.version1 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_203_115	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	P-User-Database header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-User-Database header, ensure that an INVITE request is sent to the own network and the P-User-Database header is not present.		
SIP Parameter values	INVITE1: P-User-Database: <[any DiameterURI]> INVITE2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE2 ←	←	INVITE1
	Apply post test routine		

TP number	IBCF_203_116	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/14		
Test Purpose name	P-User-Database header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the other network containing a P-User-Database header, ensure that a REGISTER request is sent to the own network and the P-User-Database header is present as received from the other network.		
SIP Parameter values	REGISTER: P-User-Database: <[any DiameterURI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	Apply post test routine		

TP number	IBCF_203_117	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/15		
Test Purpose name	P-Visited-Network-ID header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-Visited-Network-ID-Service header, ensure that an INVITE request is sent to the own network and the P-Visited-Network-ID header is present as received from the other network.		
SIP Parameter values	INVITE: P-Visited-Network-ID: "Visited network number 1"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_118	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.2/15		
Test Purpose name	P-Visited-Network-ID header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the other network containing a P-Visited-Network-ID header, ensure that a REGISTER request is sent to the own network and the P-Visited-Network-ID header is present as received from the other network.		
SIP Parameter values	REGISTER: P-Visited-Network-ID: "Visited network number 1"		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	Apply post test routine		

TP number	IBCF_203_119	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1		
Test Purpose name	P-Visited-Network-ID header not supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a P-Visited-Network-ID header, ensure that an INVITE request is sent to the own network and the P-Visited-Network-ID header is not present.		
SIP Parameter values	INVITE 1: P-Visited-Network-ID: "Visited network number 1" INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_203_120	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Proxy-Require header, ensure that an INVITE request is sent to the own network and the Proxy-Require header is present as received from the other network.		
SIP Parameter values	INVITE: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_121	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Proxy-Require header, ensure that an ACK request is sent to the own network and the Proxy-Require header is present as received from the other network.		
SIP Parameter values	ACK: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_122	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Proxy-Require header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Proxy-Require header, ensure that a BYE request is sent to the own network and the Proxy-Require header is present as received from the other network.		
SIP Parameter values	BYE: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_123	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Proxy-Require header supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the other network containing a Proxy-Require header, ensure that a REGISTER request is sent to the own network and the Proxy-Require header is present as received from the other network.		
SIP Parameter values	REGISTER: Proxy-Require: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	Apply post test routine		

TP number	IBCF_203_124	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Reject-Contact header, ensure that an INVITE request is sent to the own network and the Reject-Contact header is present as received from the other network.		
SIP Parameter values	INVITE: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_125	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Reject-Contact header, ensure that an ACK request is sent to the own network and the Reject-Contact header is present as received from the other network.		
SIP Parameter values	ACK: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_126	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Reject-Contact header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Reject-Contact header, ensure that a BYE request is sent to the own network and the Reject-Contact header is present as received from the other network.		
SIP Parameter values	BYE: Reject-Contact: *;actor="msg-taker";video		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_127	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Request-Disposition header, ensure that an INVITE request is sent to the own network and the Request-Disposition header is present as received from the other network.		
SIP Parameter values	INVITE: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_128	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Request-Disposition header, ensure that an ACK request is sent to the own network and the Request-Disposition header is present as received from the other network.		
SIP Parameter values	ACK: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_129	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/18		
Test Purpose name	Request-Disposition header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Request-Disposition header, ensure that a BYE request is sent to the own network and the Request-Disposition header is present as received from the other network.		
SIP Parameter values	BYE: Request-Disposition: no-fork		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_130	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Require header, ensure that an INVITE request is sent to the own network and the Require header is present as received from the other network.		
SIP Parameter values	INVITE: Require: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_131	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Require header, ensure that a 180 Ringing response is sent to the other network and the Require header is present as received from the own network.		
SIP Parameter values	180: Require: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_132	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Require header, ensure that a 200 OK INVITE response is sent to the other network and the Require header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_134	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in BYE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Require header, ensure that an INVITE request is sent to the own network and the Require header is present as received from the other network.		
SIP Parameter values	BYE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_135	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Require header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Require header, ensure that a 200 OK BYE response is sent to the other network and the Require header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Require: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE

TP number	IBCF_203_136	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Client header not supported in REGISTER		
Test Purpose	When the IBCF receives a REGISTER request from the other (visited) network containing a Security-Client header, ensure that a REGISTER request is sent to the own (home) network and the Security-Client header is not present.		
SIP Parameter values	REGISTER 1: Security-Client: tls REGISTER 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	Apply post test routine		

TP number	IBCF_203_137	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Server header not supported in 200 OK REGISTER		
Test Purpose	When the IBCF receives a 200 OK REGISTER response from the own (home) network containing a Security-Server header, ensure that a 200 OK REGISTER response is sent to the other (visited) network and the Security-Server header is not present.		
SIP Parameter values	200 OK 1: Security-Server: tls;q=0.2 200 OK 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	200 OK REGISTER →	→	200 OK REGISTER

TP number	IBCF_203_138	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1		
Test Purpose name	Security-Verify header not supported		
Test Purpose	When the IBCF receives an INVITE request from the own (visited) network containing a Security-Verify header, ensure that an INVITE request is sent to the other (home) network and the Security-Verify header is not present.		
SIP Parameter values	INVITE 1: Security-Verify: tls;q=0.2 INVITE 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE
	Apply post test routine		

TP number	IBCF_203_139	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/16		
Test Purpose name	Session-Expires header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Session-Expires header, ensure that an INVITE request is sent to the own network and the Session-Expires header is present as received from the other network.		
SIP Parameter values	INVITE: Session-Expires: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_140	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/16		
Test Purpose name	Session-Expires header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE request from the own network containing a Session-Expires header, ensure that a 200 OK INVITE request is sent to the other network and the Session-Expires header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Session-Expires: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_141	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Supported header, ensure that an INVITE request is sent to the own network and the Supported header is present as received from the other network.		
SIP Parameter values	INVITE: Supported: 100rel		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_142	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Supported header, ensure that a 200 OK INVITE response is sent to the other network and the Supported header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Supported: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_143	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a Supported header, ensure that a BYE request is sent to the own network and the Supported header is present as received from the other network.		
SIP Parameter values	BYE: Supported: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_144	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Supported header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Supported header, ensure that a 200 OK BYE response is sent to the other network and the Supported header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Supported: timer		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_145	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Timestamp header, ensure that an INVITE request is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	INVITE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_146	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a Timestamp header, ensure that a 180 Ringing response is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	180: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_147	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a Timestamp header, ensure that a 200 OK INVITE response is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_148	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a Timestamp header, ensure that an ACK request is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	ACK: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_149	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in BYE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Timestamp header, ensure that an INVITE request is sent to the own network and the Timestamp header is present as received from the other network.		
SIP Parameter values	BYE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_150	Reference	Annex A/ [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Timestamp header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a Timestamp header, ensure that a 200 OK BYE response is sent to the other network and the Timestamp header is present as received from the own network.		
SIP Parameter values	200 OK BYE: Timestamp: [any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_151	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a To header, ensure that an INVITE request is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	INVITE: To: <[any URI]>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_152	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a To header, ensure that a 180 Ringing response is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	180: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_153	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a To header, ensure that a 200 OK INVITE response is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_154	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a To header, ensure that an ACK request is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	ACK: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE	← ←	INVITE
	180 Ringing	→ →	180 Ringing
	200 OK INVITE	→ →	200 OK INVITE
	ACK	← ←	ACK
	Apply post test routine		

TP number	IBCF_203_155	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a To header, ensure that a BYE request is sent to the own network and the To header is present as received from the other network.		
SIP Parameter values	BYE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE	← ←	BYE
	Apply post test routine		

TP number	IBCF_203_156	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	To header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a To header, ensure that a 200 OK BYE response is sent to the other network and the To header is present as received from the own network.		
SIP Parameter values	200 OK BYE: To: <[any URI]>; tag=[any value]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE	← ←	BYE
	200 OK BYE	→ →	200 OK BYE

TP number	IBCF_203_157	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/20		
Test Purpose name	Trigger-Consent header supported		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a Trigger-Consent header, ensure that an INVITE request is sent to the own network and the Trigger-Consent header is present as received from the other network.		
SIP Parameter values	INVITE: Trigger-Consent:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE	← ←	INVITE
	Apply post test routine		

TP number	IBCF_203_158	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	Unsupported header supported		
Test Purpose	When the IBCF receives a 420 Bad Extension response from the own network containing an Unsupported header, ensure that a 420 Bad Extension response is sent to the other network and the Unsupported header is present as received from the own network.		
SIP Parameter values	420: Unsupported: etsi-int13		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	420 Bad Extension →	→	420 Bad Extension
	ACK ←	←	ACK

TP number	IBCF_203_159	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a User-Agent header, ensure that an INVITE request is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	INVITE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_160	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a User-Agent header, ensure that a 180 Ringing response is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	180: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_161	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a User-Agent header, ensure that a 200 OK INVITE response is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_162	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in ACK		
Test Purpose	When the IBCF receives an ACK request from the other network containing a User-Agent header, ensure that an ACK request is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	ACK: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_203_163	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a User-Agent header, ensure that a BYE request is sent to the own network and the User-Agent header is present as received from the other network.		
SIP Parameter values	BYE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_164	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3		
Test Purpose name	User-Agent header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a User-Agent header, ensure that a 200 OK BYE response is sent to the other network and the User-Agent header is present as received from the own network.		
SIP Parameter values	200 OK BYE: User-Agent: ETSI soft client v1		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_203_165	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a User-to-User header, ensure that an INVITE request is sent to the own network and the User-to-User header is present as received from the other network.		
SIP Parameter values	INVITE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_203_166	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network containing a User-to-User header, ensure that a 180 Ringing response is sent to the other network and the User-to-User header is present as received from the own network.		
SIP Parameter values	180: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_203_167	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network containing a User-to-User header, ensure that a 200 OK INVITE response is sent to the other network and the User-to-User header is present as received from the own network.		
SIP Parameter values	200 OK INVITE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_203_168	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in BYE		
Test Purpose	When the IBCF receives a BYE request from the other network containing a User-to-User header, ensure that a BYE request is sent to the own network and the User-to-User header is present as received from the other network.		
SIP Parameter values	BYE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	Apply post test routine		

TP number	IBCF_203_169	Reference	Annex A [3]
TSS reference	Entry_Point/scr/bcall		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.2/17		
Test Purpose name	User-to-User header supported in 200 OK BYE		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own network containing a User-to-User header, ensure that a 200 OK BYE response is sent to the other network and the User-to-User header is present as received from the own network.		
SIP Parameter values	200 OK BYE: User-to-User: 504554534920494E54;encoding=hex		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

6.2.3.2 Simulation services

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

TP number	IBCF_204_001	**Reference**	4.4.2, 5.10.6 [**1**] 5, RFC 3325 [**16**]
TSS reference	Entry_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field from the request for incoming requests Privacy is set to id*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from the other network P-Asserted-Identity header and Privacy header value 'id' present, it leaves the P-Asserted-Identity header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> Privacy: id INVITE 2: P-Asserted-Identity <URI> Privacy: id		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_204_002	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC3325 [**16**]
TSS reference	Entry_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field from the request for incoming requests no Privacy requested*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from the other network P-Asserted-Identity header present and no Privacy header present, it leaves the P-Asserted-Identity header fields in the SIP requests if the other network is trusted.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> INVITE 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_204_003	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**]
TSS reference	Entry_Point/scr/ss/oip-oir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/1		
Test Purpose name	*The IBCF replaces or removes the P-Asserted-Identity header field from the request for incoming requests*		
Test Purpose	When an IBCF receives an initial SIP INVITE request from the other network it replaces the header field with a single SIP or SIPS or tel URI or remove the received P-Asserted-Identity header field from the requests if the other network is untrusted.		
SIP Parameter values	INVITE 1: P-Asserted-Identity <URI> INVITE 2: P-Asserted-Identity <single SIP, SIPS or tel URI> **or** no P-Asserted-Identity present		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

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

TP number	IBCF_205_001	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**], 7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the 180 response Privacy is set to id*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header and Privacy header value 'id' present upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is trusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> Privacy: id 180 2: P-Asserted-Identity <URI> Privacy: id		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_205_002	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**], 7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the 180 response no Privacy requested*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header present and no Privacy requested upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is trusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> 180 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_205_003	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**], 7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the 200 response Privacy is set to id*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header and Privacy header value 'id' present upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is trusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> Privacy: id 200 2: P-Asserted-Identity <URI> Privacy: id		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_004	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**], 7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the 200 response no Privacy requested*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header present and no Privacy requested upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is trusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> 200 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_005	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND NOT PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 180 response Privacy is set to id*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header and Privacy header value 'id' upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other network is untrusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> Privacy: id 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_205_006	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND NOT PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF leaves the P-Asserted-Identity header field set to the public user identity from the 180 response Privacy is not present*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header and Privacy header field is not present upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is untrusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> 180 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_205_007	**Reference**	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND NOT PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 200 OK response Privacy is set to id*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header is present and Privacy header value 'id' upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other network is untrusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> Privacy: id 200 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_008	Reference	4.4.2, 5.10.6 [**1**], 5, RFC 3325 [**16**], 7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND NOT PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF replaces or removes the P-Asserted-Identity header field set to the public user identity from the 200 OK response Privacy is not present*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header is present and Privacy header is not present upon received an initial INVITE request, it leaves the P-Asserted-Identity header fields in the SIP responses if the other network is untrusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> 200 2: P-Asserted-Identity <URI>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_009	Reference	7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 180 response Privacy is set to id*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header and Privacy header value 'id' present upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other external IP network is untrusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> Privacy: id 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_205_010	Reference	7.2.2 [**17**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 200 response Privacy is set to id*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header and Privacy header value 'id' present upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other external IP network is untrusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> Privacy: id 200 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_011	Reference	7.2.2 [17]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 180 response Privacy header not present*		
Test Purpose	When an IBCF receives a 180 Ringing provisional response from within its own network P-Asserted-Identity header is present and Privacy header is not present upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other external IP network is untrusted.		
SIP Parameter values	180 1: P-Asserted-Identity <URI> 180 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_205_012	Reference	7.2.2 [17]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.1/3 AND PICS 7.2.3/2		
Test Purpose name	*The IBCF removes the P-Asserted-Identity header field set to the public user identity from the 200 OK response Privacy header not present*		
Test Purpose	When an IBCF receives a 200 OK INVITE final response from within its own network P-Asserted-Identity header is present and Privacy header is not present upon received an initial INVITE request, it removes the P-Asserted-Identity header fields in the SIP responses if the other external IP network is untrusted.		
SIP Parameter values	200 1: P-Asserted-Identity <URI> 200 2:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_205_013	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/2		
Test Purpose name	INVITE 'from-change' tag in Supported header supported		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'from-change' tag is contained in the Supported header, an INVITE request is sent to the own network and the 'from-change' tag is present in the supported header.		
SIP Parameter values	INVITE 1: Supported: from-change INVITE 2: Supported: from-change		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_205_014	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/tip-tir		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/2		
Test Purpose name	200 OK 'from-change' tag in Supported header supported		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'from-change' tag is contained in the Supported header, a 200 OK INVITE is sent to the other network and the 'from-change' tag present in the supported header. Ensure that the changed From header value in the UPDATE request is passed unchanged.		
SIP Parameter values	200 OK 1: Supported: from-change 200 OK 2: Supported: from-change UPDATE 1: From: <changed From header value> UPDATE 2: From: <changed From header value>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	UPDATE1 →	→	UPDATE 2
	200 OK UPDATE ←	←	200 OK UPDATE
	Apply post test routine		

6.2.3.2.3 Communication Diversion service

TP number	IBCF_206_001	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 181 is supported to trusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 181 SIP responses if the other network is trusted.		
SIP Parameter values	181 1: History-Info		
Comments	181 2: History-Info		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	181 Call Is Being Forwarded 1 →	→	181 Call Is Being Forwarded 2
	Apply post test routine		

TP number	IBCF_206_002	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 180 is supported to trusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 180 SIP responses if the other network is trusted.		
SIP Parameter values	180 1: History-Info		
Comments	180 2: History-Info		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_206_003	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 200 OK is supported to trusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 200 OK INVITE final responses if the other network is trusted.		
SIP Parameter values	200 1: History-Info		
Comments	200 2: History-Info		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 1
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_206_004	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and Privacy header in 181 is supported to trusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 181 SIP responses if the other network is trusted.		
SIP Parameter values	181 1: History-Info Privacy: history		
Comments	181 2: History-Info Privacy: history		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	181 Call Is Being Forwarded 1 →	→	181 Call Is Being Forwarded 2
	Apply post test routine		

TP number	IBCF_206_005	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and Privacy header in 180 is supported to trusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 180 SIP responses if the other network is trusted.		
SIP Parameter values	180 1: History-Info Privacy: history		
Comments	180 2: History-Info Privacy: history		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_206_006	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and Privacy header in 200 OK is supported to trusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 200 OK INVITE final responses if the other network is trusted.		
SIP Parameter values	200 1: History-Info Privacy: history		
Comments	200 2: History-Info Privacy: history		
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing 200 OK INVITE 1 → → 200 OK INVITE 1 ACK ← ← ACK **Apply post test routine**		

TP number	IBCF_206_007	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 181 is supported to trusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 181 SIP responses if the other network is trusted.		
SIP Parameter values	181 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	181 2: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 181 Call Is Being Forwarded 1 → → 181 Call Is Being Forwarded 2 **Apply post test routine**		

TP number	IBCF_206_008	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 180 is supported to trusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 180 SIP responses if the other network is trusted.		
SIP Parameter values	180 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	180 2: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 180 Ringing 1 → → 180 Ringing 2 **Apply post test routine**		

TP number	IBCF_206_009	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 200 OK is supported to trusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 200 OK INVITE final responses if the other network is trusted.		
SIP Parameter values	200 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	200 2: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 1
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_206_010	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 181 is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 181 SIP responses or removes it from the response if the other network is untrusted.		
SIP Parameter values	181 1: History-Info		
Comments	181 2: History-Info or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	181 Call Is Being Forwarded 1 →	→	181 Call Is Being Forwarded 2
	Apply post test routine		

TP number	IBCF_206_011	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 180 is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 180 SIP responses or removes it from the response if the other network is untrusted.		
SIP Parameter values	180 1: History-Info		
Comments	180 2: History-Info or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_206_012	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 200 OK is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final provisional response containing a History-Info header and no Privacy header from within its own network upon received an initial INVITE request, it leaves the History-Info header fields in the 200 OK INVITE final responses or removes it from the response if the other network is untrusted.		
SIP Parameter values	200 1: History-Info		
Comments	200 2: History-Info or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 1
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_206_013	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 181 is not supported to untrusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes the History-Info header fields in the 181 SIP responses if the other network is untrusted.		
SIP Parameter values	181 1: History-Info Privacy: history		
Comments	181 2:		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	181 Call Is Being Forwarded 1 →	→	181 Call Is Being Forwarded 2
	Apply post test routine		

TP number	IBCF_206_014	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 180 is not supported to untrusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes the History-Info header fields in the 180 SIP responses if the other network is untrusted.		
SIP Parameter values	180 1: History-Info Privacy: history		
Comments	180 2:		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_206_015	**Reference**	4.4.2, 5.10.6 [**1**] 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header in 200 OK is not supported to untrusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes the History-Info header fields in the 200 OK INVITE final responses if the other network is untrusted.		
SIP Parameter values	200 1: History-Info Privacy: history		
Comments	200 2:		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 1
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_206_016	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 181 is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 181 Call Is Being Forwarded provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes this specific hi-entry from the History-Info header fields in the 181 SIP response or removes all hi-entries from the SIP response if the other network is untrusted.		
SIP Parameter values	181 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	181 2: History-Info: <*hi-targeted-to-uri 2*>; index=1.1 or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	181 Call Is Being Forwarded 1 →	→	181 Call Is Being Forwarded 2
	Apply post test routine		

TP number	IBCF_206_017	**Reference**	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 180 is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 180 Ringing provisional response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes this specific hi-entry from the History-Info header fields in the 180 SIP response or removes all hi-entries from the SIP response if the other network is untrusted.		
SIP Parameter values	180 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	180 2: History-Info: <*hi-targeted-to-uri 2*>; index=1.1 or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_206_018	Reference	4.4.2, 5.10.6 [**1**], 5 [**15**]
TSS reference	Entry_Point/scr/ss/cdiv		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/2 AND PICS 7.2.3/3		
Test Purpose name	History-Info header and escaped Privacy header in 200 OK is supported or removed to untrusted network		
Test Purpose	When an IBCF receives a 200 OK INVITE final response containing a History-Info header and a Privacy header value history from within its own network upon received an initial INVITE request, it removes this specific hi-entry from the History-Info header fields in the 200 OK INVITE final response or removes all hi-entries from the SIP response if the other network is untrusted.		
SIP Parameter values	200 1: History-Info: <*hi-targeted-to-uri 1*?Privacy=history>; index=1 <*hi-targeted-to-uri 2*>; index=1.1		
Comments	200 2: History-Info: <*hi-targeted-to-uri 2*>; index=1.1 or History-Info header is not present		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 1
	ACK ←	←	ACK
	Apply post test routine		

6.2.3.2.4 Other Simulation services

TP number	IBCF_207_001	Reference	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/17 AND PICS 7.2.3/4		
Test Purpose name	INFO request containing the "application/vnd.etsi.mcid+xml" request MIME body supported		
Test Purpose	When the IBCF receives an INFO request from the own network the Content-Type is set to 'application/vnd.etsi.mcid+xml' and a MCID XML request body is present, an INFO request is sent to the other network. The Content-type is set to 'application/vnd.etsi.mcid+xml' and the received MCID XML body is present.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.mcid+xml <?xml version="1.0" mcid request McidRequestIndicator>1< HoldingIndicator>1<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	INFO →	→	INFO
	200 OK INFO ←	←	200 OK INFO
	Apply post test routine		

TP number	IBCF_207_002	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/17 AND PICS 7.2.3/4		
Test Purpose name	INFO request containing the "application/vnd.etsi.mcid+xml" response MIME body supported		
Test Purpose	When the IBCF receives an INFO request from the other network the Content-Type is set to 'application/vnd.etsi.mcid+xml' and a MCID XML response body is present, an INFO request is sent to the own network. The Content-type is set to 'application/vnd.etsi.mcid+xml' and the received MCID XML body is present.		
SIP Parameter values	INFO 2: Content-Type: application/vnd.etsi.mcid+xml XML mcid response McidResponseIndicator>1< HoldingProvidedIndicator>1< OrigPartyIdentity>[any URI]<		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	INFO →	→	INFO
	200 OK INFO 1 ←	←	200 OK INFO 1
	INFO 2 ←	←	INFO 2
	200 OK INFO →	→	200 OK INFO
	Apply post test routine		

TP number	IBCF_207_003	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/5		
Test Purpose name	Privacy value 'id' and 433 Anonymity Disallowed response supported		
Test Purpose	When an IBCF receives a P-Asserted-Identity and the Privacy header is set to 'id' from the other network, an INVITE request is sent to the own network containing the P-Asserted-Identity header and the Privacy header. The received 433 Anonymity Disallowed final response from the other network is sent into the own network.		
SIP Parameter values	INVITE: P-Asserted-Identity Privacy: id		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	433 Anonymity Disallowed →	→	433 Anonymity Disallowed
	ACK ←	←	ACK

TP number	IBCF_207_004	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/6		
Test Purpose name	Alert-Info header supported		
Test Purpose	When the IBCF receives a 180 Ringing from the own network containing an Alert-Info header set to 'urn:alert:service:call-waiting' a 180 Ringing response is sent to the other network and the received Alert-Info header is present.		
SIP Parameter values	180: Alert-Info: <urn:alert:service:call-waiting>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_207_005	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/6		
Test Purpose name	INVITE containing a CW XML body supported		
Test Purpose	When the IBCF receives an INVITE request from the other network and a CW XML MIME body is attached, an INVITE request is sent to the own network containing the received CW XML MIME body.		
SIP Parameter values	INVITE: Content-Type: application/vnd.3gpp.cw+xml <?xml version="1.0" ims-cw communication-waiting-indication		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_207_006	**Reference**	12/ [**2**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/19 AND PICS 7.2.3/6		
Test Purpose name	480 containing Reason cause 19 supported		
Test Purpose	When the IBCF receives a 480 Temporarily Unavailable final response from the own network and a Reason header cause value set to #19 is present, a 480 Temporarily Unavailable is sent to the other network containing the received Reason header.		
SIP Parameter values	480: Reason: Q.850: cause=19		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 480 Temporarily Unavailable → → 480 Temporarily Unavailable ACK ← ← ACK		

TP number	IBCF_207_007	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/7		
Test Purpose name	INVITE request to suspend and retrieve a session is supported		
Test Purpose	When the IBCF receives an INVITE request from the other network while an active session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendonly', an INVITE request is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendonly' The 200 OK INVITE received from the own network the version parameter of the o line is incremented and the a attribute of the m line is set to 'recvonly' is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'recvonly' When the IBCF receives an INVITE request from the other network while an suspended session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendrecv', an INVITE request is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv' The 200 OK INVITE received from the own network the version parameter of the o line is incremented and the a attribute of the m line is set to 'sendrecv' is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv'.		
SIP Parameter values	INVITE 1: SDP o line: version number incremented a=sendonly INVITE 2: SDP o line: version number incremented a=sendrecv		
Comments			
Message flows	**Mx** **SUT** **Ic** **An active session is already established** INVITE 1 ← ← INVITE 1 200 OK INVITE → → 200 OK INVITE ACK ← ← ACK INVITE 2 ← ← INVITE 2 200 OK INVITE → → 200 OK INVITE ACK ← ← ACK **Apply post test routine**		

TP number	IBCF_207_008	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/7		
Test Purpose name	UPDATE request to suspend and retrieve a session is supported		
Test Purpose	When the IBCF receives an UPDATE request from the other network while an active session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendonly', an UPDATE request is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendonly' The 200 OK UPDATE received from the own network the version parameter of the o line is incremented and the a attribute of the m line is set to 'recvonly' is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'recvonly' When the IBCF receives an UPDATE request from the other network while an suspended session is established and the version parameter in the **o** line of the SDP is incremented and the a attribute of the **m** line is set to 'sendrecv', an UPDATE request is sent to the own network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv' The 200 OK UPDATE received from the own network the version parameter of the o line is incremented and the a attribute of the m line is set to 'sendrecv' is sent to the other network: • The version parameter of the o line is incremented • The a attribute of the m line is set to 'sendrecv'.		
SIP Parameter values	UPDATE 1: SDP o line: version number incremented a=sendonly UPDATE 2: SDP o line: version number incremented a=sendrecv		
Comments			
Message flows	**Mx** **SUT** **Ic** **An active session is already established** UPDATE ← ← UPDATE 200 OK UPDATE → → 200 OK UPDATE UPDATE ← ← UPDATE 200 OK UPDATE → → 200 OK UPDATE **Apply post test routine**		

TP number	IBCF_207_009	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/8		
Test Purpose name	SUBSCRIBE with 'message-summary' event package supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the other network the: • Event header is set to 'message-summary' • Expires header set to '7200' • Accept header set to 'application/simple-message-summary' A SUBCRIBE is sent to the own network containing the MWI related headers as received from the other network.		
SIP Parameter values	SUBCRIBE: Event: message-summary Expires: 7200 Accept: application/simple-message-summary		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBCRIBE ←	←	SUBCRIBE
	200 OK SUBCRIBE/ 202 Accepted →	→	200 OK SUBCRIBE/ 202 Accepted

TP number	IBCF_207_010	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/8		
Test Purpose name	NOTIFY with message summary MIME body supported		
Test Purpose	When the IBCF receives a NOTIFY request from the other network the: • Event header set to 'message-summary' • Subscription-State header set to 'active' expires parameter set to '7200' • Content-Type header set to 'application/simple-message-summary' • MIME body set to 'Messages-Waiting: yes' A NOTIFY is sent to the own network containing the MWI related headers and MIME body as received from the other network.		
SIP Parameter values	NOTIFY: Event: message-summary Subscription-State: active; expires=7200 Content-Type: application/simple-message-summary Messages-Waiting: yes		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY ←	←	NOTIFY
	200 OK NOTIFY →	→	200 OK NOTIFY

TP number	IBCF_207_011	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/9		
Test Purpose name	603 containing a Reason header in case of ICB received		
Test Purpose	When the IBCF receives a 603 Decline final response from the own network, a 603 Decline is sent to the other network containing the received Reason header.		
SIP Parameter values	603: Reason		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	603 Decline →	→	603 Decline
	ACK ←	←	ACK

TP number	IBCF_207_012	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/9		
Test Purpose name	603 containing a Reason header in case of OCB received		
Test Purpose	When the IBCF receives a 603 Decline final response from the own network, a 603 Decline is sent to the other network containing the received Reason header.		
SIP Parameter values	603: Reason		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	603 Decline →	→	603 Decline
	ACK ←	←	ACK

TP number	IBCF_207_013	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND PICS 7.2.3/10		
Test Purpose name	486 containing a Call-Info header is supported		
Test Purpose	When the IBCF receives a 486 Busy Here final response containing a Call-Info header with purpose parameter set to 'call-completion' and m parameter set to 'BS' from the own network ensure that a 486 Busy Here final response is sent to the other network containing the received Call-Info header.		
SIP Parameter values	486: Call-Info: <sip:[any URI]>;purpose=call-completion;m=BS		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	486 Busy Here →	→	486 Busy Here
	ACK ←	←	ACK

TP number	IBCF_207_014	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND PICS 7.2.3/11		
Test Purpose name	180 containing a Call-Info header is supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response containing a Call-Info header with purpose parameter set to 'call-completion' and m parameter set to 'BS' from the own network ensure that a 180 Ringing provisional response is sent to the other network containing the received Call-Info header.		
SIP Parameter values	180: Call-Info: <sip:[any URI]>;purpose=call-completion;m=BS		
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_207_015	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	199 response is supported		
Test Purpose	When the IBCF receives a 199 Early Dialog Terminated provisional response from the own network in early dialogue ensure that the 199 Early Dialog Terminated is sent to the other network.		
SIP Parameter values			
Comments			
Message flows	Mx	SUT	Ic
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	199 Early Dialog Terminated →	→	199 Early Dialog Terminated
	Apply post test routine		

TP number	IBCF_207_016	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	SUBSCRIBE and NOTIFY for Call Completion is supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the other network and the: • Call-Info header purpose parameter is set to 'call-completion' and the m parameter is set to 'BS' or 'NR' • Event header is set to 'call-completion' ensure that a SUBSCRIBE request is sent to the own network containing the received Call-Info and Event header. When the IBCF receives a NOTIFY request from the own network and the: • Event header is set to call-completion • Content-Type header is set to application/call-completion • cc-state MIME parameter is set to queued • cc-service-retention MIME parameter is set to true ensure that a NOTIFY request is sent to the other network containing the Event header and the 'cc-' MIME body as received from the own network.		
SIP Parameter values	SUBSCRIBE: Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS or m=NR Event: call-completion NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: queued cc-service-retention: true		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	SUBSCRIBE ←	←	SUBSCRIBE
	202 Accepted →	→	202 Accepted
	NOTIFY →	→	NOTIFY
	200 OK NOTIFY ←	←	200 OK NOTIFY
	Apply post test routine		

TP number	IBCF_207_017	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	NOTIFY for Call Completion is supported		
Test Purpose	When the IBCF receives a NOTIFY request from the other network and the: • Event header is set to 'call-completion' • Content-Type header is set to 'application/call-completion' • cc-state MIME parameter is set to 'ready' **or** 'Subscription-State MIME parameter is set to 'terminated; reason=noresource' ensure that a NOTIFY request is sent to the own network containing the Event header and the 'cc-' MIME body as received from the other network.		
SIP Parameter values	NOTIFY: Event: call-completion Content-Type: application/call-completion cc-state: ready or Subscription-State: terminated; reason=noresource		
Comments	A subscription from the other network is active.		
Message flows	**Mx**	**SUT**	**Ic**
	NOTIFY ←	←	NOTIFY
	200 OK NOTIFY →	→	200 OK NOTIFY
	Apply post test routine		

TP number	IBCF_207_018	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	PUBLISH for Call Completion is supported		
Test Purpose	When the IBCF receives a PUBLISH request from the other network and the: • Event header is set to presence • Call-Info header purpose parameter is set to 'call-completion' and the m parameter is set to 'BS' **or** 'NR' • Content-Type header is set to application/pidf+xml • XML MIME body with element 'presence' and status/basic element set to 'closed' **or** 'open' ensure that a PUBLISH request is sent to the own network containing the Call-Info header and the presence MIME body as received from the other network.		
SIP Parameter values	PUBLISH: Event: presence Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS **or** m=NR Content-Type: application/pidf+xml <?xml version="1.0" encoding="UTF-8"?> <presence <status> <basic>closed</basic> **or** <basic>open</basic>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	PUBLISH ←	←	PUBLISH
	200 OK PUBLISH →	→	200 OK PUBLISH
	Apply post test routine		

TP number	IBCF_207_019	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND NOT PICS 7.2.1/1 AND (PICS 7.2.3/11 OR PICS 7.2.3/10)		
Test Purpose name	INVITE with Call Completion information is supported		
Test Purpose	When the IBCF receives an INVITE request from the other network and a m parameter set to 'BS' or 'NR' is present in the request line and a Call-Info header containing a purpose parameter set to 'call-completion' and a m parameter set to 'BS' or 'NR', ensure that an INVITE request is sent to the own network, the m parameter in the request line and the Call-Info header is present as received from the other network.		
SIP Parameter values	INVITE: Request Line URI;m=BS **or** m=NR Call-Info: <sip:[any URI]>;purpose=call-completion; m=BS **or** m=NR		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_207_020	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND PICS 7.2.3/20		
Test Purpose name	Support of REFER with Referred-By header and Replaces header		
Test Purpose	When the IBCF receives a REFER request in an active session from the other network and a Refer-To header containing a Replaces header and a Referred-By header is present, a REFER request is sent to the own network containing the Refer-To header and Referred-By header as received from the other network.		
SIP Parameter values	REFER: Refer-To: [any URI];method=invite?Replaces=[any dialogue identifier value] Referred-By: [any URI]		
Comments	An active session is already established.		
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	REFER ←	←	REFER
	202 Accepted →	→	202 Accepted
	Apply post test routine		

TP number	IBCF_207_021	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND NOT PICS 7.2.3/20		
Test Purpose name	No support of REFER method		
Test Purpose	When the IBCF receives a REFER request in an active session from the other network the IBCF sends a **403 Forbidden** or **501 Not implemented** unsuccessful final response to the other network.		
SIP Parameter values	REFER: Refer-To: [any URI];method=invite?Replaces=[any dialogue identifier value] Referred-By: [any URI]		
Comments	An active session is already established.		
Message flows	**Mx** **SUT** **Ic** **A session is already established** ← REFER **CASE A** → 405 Method not allowed **CASE B** → 500 Server Internal Error **CASE C** → 501 Not implemented **CASE D** → 403 Forbidden **Apply post test routine**		

TP number	IBCF_207_022	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND (PICS 7.2.3/12 OR PICS 7.2.3/13) AND PICS 7.2.3/20		
Test Purpose name	Support of NOTIFY with 'application/sipfrag' MIME body		
Test Purpose	When the IBCF receives a NOTIFY request from the other network and a sipfrag MIME body is present a NOTIFY is sent to the own network and the sipfrag MIME body is present as received from the other network.		
SIP Parameter values	NOTIFY: Content-Type: message/sipfrag SIP/2.0 100 Trying **or** SIP/2.0 200 OK		
Comments	A active session is already established and a REFER request was received from the own network		
Message flows	**Mx** **SUT** **Ic** **A session is already established and REFER was sent** NOTIFY ← ← NOTIFY 200 OK NOTIFY → → 200 OK NOTIFY **Apply post test routine**		

TP number	IBCF_207_023	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/13		
Test Purpose name	INVITE containing a recipient-list supported		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a XML recipient-list, ensure that an INVITE request is sent to the own network and the received recipient-list is present.		
SIP Parameter values	INVITE: Content-Type: application/resource-lists+xml <?xml version="1.0" <resource-lists <list> <entry uri=[any URI and session identifier] <entry uri=[any URI and session identifier] </list> </resource-lists>		
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_207_024	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	200 OK INVITE containing a 'isfocus' parameter		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the other network and the Contact header contains the 'isfocus' URI parameter, ensure that a 200 OK INVITE is sent to the own network and the 'isfocus' parameter is present in the Contact header field.		
SIP Parameter values	200 OK: Contact: <sip:[any URI]>;isfocus		
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE 200 OK INVITE → → 200 OK INVITE ACK ← ← ACK **Apply post test routine**		

TP number	IBCF_207_025	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	INVITE containing a 'isfocus' parameter		
Test Purpose	When the IBCF receives an INVITE request from the other network and the Contact header contains the 'isfocus' URI parameter, ensure that an INVITE request is sent to the own network and the 'isfocus' parameter is present in the Contact header field.		
SIP Parameter values	INVITE: Contact: <sip:[any URI]>;isfocus		
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_207_026	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13		
Test Purpose name	SUBCRIBE for conference event package is supported		
Test Purpose	When the IBCF receives a SUBSCRIBE request from the other network and a Event header is present set to 'conference', ensure that a SUBSCRIBE request is sent to the own network containing the Event header as received from the other network.		
SIP Parameter values	SUBSCRIBE: Event: conference		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	SUBSCRIBE ←	←	SUBSCRIBE
	202 Accepted →	→	202 Accepted
	NOTIFY →	→	NOTIFY
	200 OK NOTIFY ←	←	200 OK NOTIFY
	Apply post test routine		

TP number	IBCF_207_027	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/13 AND PICS 7.2.3/18		
Test Purpose name	NOTIFY for conference event package is supported		
Test Purpose	When the IBCF receives a NOTIFY request from the own network after the conference package was subscribed containing a conference info XML MIME body, ensure that a NOTIFY is sent to the other network and the conference info XML MIME body is present as received from the own network.		
SIP Parameter values	NOTIFY: Event: conference Subscription-State: active application/conference-info+xml: <*conference-info*> entity=[any URI] <*conference-state*> <user-count>2</user-count> <active>true</active> <*users*> <*user* entity=[any URI] <endpoint entity==[any URI] <status>connected</status> <joining-method>dialed-in</ joining-method> <media id="1" <status>sendrecv</status>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established **Conference notification is subscribed**		
	NOTIFY →	→	NOTIFY
	200 OK NOTIFY ←	←	200 OK NOTIFY
	Apply post test routine		

TP number	IBCF_207_028	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a CUG XML networkIndicator, cugInterlockBinaryCode, cugCommunicationIndicator body, an INVITE is sent to the own network containing the CUG XML body received from the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx** ← **SUT** ← **Ic** INVITE ← INVITE **Apply post test routine**		

TP number	IBCF_207_029	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/14		
Test Purpose name	Support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a CUG XML outgoingAccessRequest, cugIndex body, an INVITE is sent to the own network containing the CUG XML body received from the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug cugCallOperation outgoingAccessRequest>true< cugIndex>[any value]<		
Comments			
Message flows	**Mx** ← **SUT** ← **Ic** INVITE ← INVITE **Apply post test routine**		

TP number	IBCF_207_030	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND ((PICS 7.2.3/14 AND PICS 7.2.3/21) OR NOT PICS 7.2.3/14)		
Test Purpose name	No support of INVITE containing a CUG request		
Test Purpose	When the IBCF receives an INVITE request from the other network containing a CUG XML networkIndicator, cugInterlockBinaryCode, cugCommunicationIndicator body and there is no agreement to support CUG, a 415 Unsupported Media Type final response is sent to the other network to terminate the request.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE → 415 Unsupported Media Type ← ACK		

TP number	IBCF_207_031	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 403 final response		
Test Purpose	When the IBCF receives a 403 Forbidden final response from the own network upon an INVITE request was sent to the own network containing a CUG request, ensure that the 403 final response I sent to the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			

Message flows	Mx		SUT		Ic
	INVITE	←		←	INVITE
	403 Forbidden	→		→	403 Forbidden
	ACK	←		←	ACK

TP number	IBCF_207_032	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 603 final response		
Test Purpose	When the IBCF receives a 603 Decline final response from the own network upon an INVITE request was sent to the own network containing a CUG request, ensure that the 603 final response I sent to the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			

Message flows	Mx		SUT		Ic
	INVITE	←		←	INVITE
	603 Decline	→		→	603 Decline
	ACK	←		←	ACK

TP number	IBCF_207_033	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/14		
Test Purpose name	Support of 500 final response		
Test Purpose	When the IBCF receives a 500 Server Internal Error final response from the own network upon an INVITE request was sent to the own network containing a CUG request, ensure that the 500 final response I sent to the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.cug+xml Content-Disposition: handling= required <?xml version="1.0" cug networkIndicator>[any value]< cugInterlockBinaryCode>[any value]< cugCommunicationIndicator>11<		
Comments			

Message flows	Mx		SUT		Ic
	INVITE	←		←	INVITE
	500 Server Internal Error	→		→	500 Server Internal Error
	ACK	←		←	ACK

TP number	IBCF_207_034	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	INVITE containing AOC-S info supported		
Test Purpose	When the IBCF receives an INVITE request from the other (home) network and a AOC-S XML MIME body is present, ensure that an INVITE request is sent to the own (visited) network and the AOC-S XML body is contained as received from the other network.		
SIP Parameter values	INVITE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_207_035	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	183 containing AOC-S info supported		
Test Purpose	When the IBCF receives a 183 Session Progress provisional response from the own (home) network and a AOC-S XML MIME body is present, ensure that a 183 Session Progress provisional response is sent to the other (visited) network and the AOC-S XML body is contained as received from the own network.		
SIP Parameter values	183: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	183 Session Progress →	→	183 Session Progress
	Apply post test routine		

TP number	IBCF_207_036	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	180 containing AOC-S info supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response from the own (home) network and a AOC-S XML MIME body is present, ensure that a 180 Ringing provisional response is sent to the other (visited) network and the AOC-S XML body is contained as received from the own network.		
SIP Parameter values	180: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	Apply post test routine		

TP number	IBCF_207_037	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	200 OK INVITE containing AOC-S info supported		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the own (home) network and a AOC-S XML MIME body is present, ensure that a 200 OK INVITE final response is sent to the other (visited) network and the AOC-S XML body is contained as received from the own network.		
SIP Parameter values	200 OK: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-s charged-items communication-setup basic price-time currency-id currency-amount length-time-unit charging-type		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_207_038	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	INFO containing AOC-D info supported		
Test Purpose	When the IBCF receives a INFO request from the own (home) network and a AOC-D XML MIME body is present, ensure that a INFO request is sent to the other (visited) network and the AOC-D XML body is contained as received from the own network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-d charging-info recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	INFO →	→	INFO
	200 OK INFO ←	←	200 OK INFO
		Apply post test routine	

TP number	IBCF_207_039	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	BYE containing AOC-E info supported		
Test Purpose	When the IBCF receives a BYE request from the own (home) network containing a AOC-E XML MIME body is present, ensure that the BYE request sent to the other (visited) contains the AOC-D XML MIME body as received from the own network.		
SIP Parameter values	BYE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-e recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE →	→	BYE
	200 OK BYE ←	←	200 OK BYE

TP number	IBCF_207_040	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.1/1 AND PICS 7.2.3/15		
Test Purpose name	200 OK BYE containing AOC-E info supported		
Test Purpose	When the IBCF receives a 200 OK BYE response from the own (home) network containing a AOC-E XML MIME body is present, ensure that the 200 OK BYE response sent to the other (visited) contains the AOC-D XML MIME body as received from the own network.		
SIP Parameter values	200 OK BYE: Content-Type: application/vnd.etsi.aoc+xml <?xml version="1.0" aoc aoc-e recorded-charges recorded-currency-units currency-id currency-amount		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE ←	←	BYE
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_207_041	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	INVITE containing the capability for network charging is supported		
Test Purpose	When the IBCF receives an INVITE request from the other (visited) network and the Accept header is set to 'application/vnd.etsi.sci+xml' ensure that an INVITE is sent to the own (home) network containing the Accept header as received from the other network.		
SIP Parameter values	INVITE: Accept: application/vnd.etsi.sci+xml		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_207_042	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	The response code 504 is supported		
Test Purpose	When the IBCF receives a 504 Server Time-out final response from the own network, ensure that the 504 Server Time-out is sent to the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	504 Server Time-out →	→	504 Server Time-out
	ACK ←	←	ACK

TP number	IBCF_207_043	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	183 containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 183 Session Progress provisional response from the own network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 183 Session Progress to the other network.		
SIP Parameter values	183: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	183 Session Progress →	→	183 Session Progress
	PRACK ←	←	PRACK
	200 OK PRACK →	→	200 OK PRACK
	Apply post test routine		

TP number	IBCF_207_044	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	180 containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 180 Ringing provisional response from the own network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 180 Ringing to the other network.		
SIP Parameter values	180: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	PRACK ←	←	PRACK
	200 OK PRACK →	→	200 OK PRACK
	Apply post test routine		

TP number	IBCF_207_045	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	200 OK containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a 200 OK INVITE final response from the own network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent 200 OK INVITE to the other network.		
SIP Parameter values	200 OK: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_207_046	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	BYE containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives a BYE request from the own network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent BYE request to the other network.		
SIP Parameter values	BYE: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		A session is already established	
	BYE	→	→ BYE
	200 OK BYE	←	← 200 OK BYE

TP number	IBCF_207_047	**Reference**	12 [**3**]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	INFO containing a 'crgt' XML element is supported		
Test Purpose	When the IBCF receives an INFO request from the own network and a 'sci' XML MIME body is present containing 'crgt' element, ensure that the received 'crgt' XML MIME body is contained in the sent INFO request to the other network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **crgt** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart tariffCurrency currentTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchCurrency nextTariffCurrency communicationChargeSequenceCurrency currencyFactorScale currencyFactor currencyScale tariffDuration subTariffControl tariffControlIndicators callAttemptChargeCurrency currencyFactor currencyScale callSetupChargeCurrency currencyFactor currencyScale tariffSwitchOverTime originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INFO →	→	INFO
	200 OK INFO ←	←	200 OK INFO
	Apply post test routine		

TP number	IBCF_207_048	Reference	12 [3]
TSS reference	Entry_Point/scr/ss/other		
Selection criteria	PICS 7.1.1/3 AND PICS 7.2.3/16		
Test Purpose name	INFO containing a 'aocrg' XML element is supported		
Test Purpose	When the IBCF receives an INFO request from the own network and a 'sci' XML MIME body is present containing 'aocrg' element, ensure that the received 'aocrg' XML MIME body is contained in the sent INFO request to the other network.		
SIP Parameter values	INFO: Content-Type: application/vnd.etsi.sci+xml Content-Disposition: render; handling=optional <?xml version="1.0" messageType **aocrg** chargingControlIndicators immediateChangeOfActuallyAppliedTariff delayUntilStart addOnCharge addOnChargeCurrency currencyFactorScale currencyFactor currencyScale originationIdentification currency		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INFO →	→	INFO
	200 OK INFO ←	←	200 OK INFO
	Apply post test routine		

6.2.4 Network configuration hiding

6.2.4.1 Registration

TP number	IBCF_208_001	Reference	5.10.4.2 [1]
TSS reference	Entry_Point/nch/reg		
Selection criteria	PICS 7.2.1/1 AND PICS 7.1.1/1		
Test Purpose name	Encryption of service-Route header field		
Test Purpose	When an IBCF receives SIP 200 OK REGISTER response from within its own network to previously received REGISTER request from the other network, it shall encrypt the all Service-Route header fields (values) identifying the own network entities.		
SIP Parameter values	200 OK 1: Service-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr 200 OK 2: Service-Route: sip:Token(<sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr), tokenized-by=[any host]		
Comments	The service route values are contained in one Service-Route header or for each value a header field exists		
Message flows	**Mx**	**SUT**	**Ic**
	REGISTER ←	←	REGISTER
	200 OK REGISTER 1 →	→	200 OK REGISTER 2
	Apply post test routine		

6.2.4.2 Basic call requirements

TP number	IBCF_209_001	**Reference**	5.10.3.2 3), 5.10.4 [**1**]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Record-Route headers in the 180 Ringing		
Test Purpose	When an IBCF receives a SIP receives a SIP **180 Ringing** response from the own network upon a SIP INVITE request from a trusted domain outside its own network it shall **encrypted** all **Record-Route** headers prior to forwarding the response.		
SIP Parameter values	180 1: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr 180 2: Record-Route: sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], <sip:[any URI 2]>;lr		
Comments	**any URI 1** is the address of an entity in the own network **any URI 2** is the address of an entity in the other network		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing 1 →	→	180 Ringing 2
	Apply post test routine		

TP number	IBCF_209_002	**Reference**	5.10.3.2 3), 5.10.4 [**1**]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Encrypt all Record-Route headers in the 200 OK		
Test Purpose	When an IBCF receives a SIP receives a SIP **200 OK** response from the own network upon a SIP INVITE request from a trusted domain outside its own network it shall **encrypted** all **Record-Route** headers prior to forwarding the response.		
SIP Parameter values	200 OK 1: Record-Route: <sip:[any URI 1]>;lr, <sip:[any URI 2]>;lr 200 OK 2: Record-Route: sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], <sip:[any URI 2]>;lr		
Comments	**any URI 1** is the address of an entity in the own network **any URI 2** is the address of an entity in the other network		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	ACK ←	←	ACK
	Apply post test routine		

TP number	IBCF_209_003	**Reference**	5.10.3.2 3), 5.10.4 [**1**]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt all Route headers in the ACK		
Test Purpose	When an IBCF receives a SIP ACK request upon a SIP INVITE request from a trusted domain outside its own network was received, it shall **decrypted** all **Route** headers prior to forwarding the response.		
SIP Parameter values	ACK 1: Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], ACK 2: Route: <sip:[any URI 1]>;lr		
Comments	**any URI** 1 is the address of an entity in the own network		
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	ACK 2 ←	←	ACK 1
	Apply post test routine		

TP number	IBCF_209_004	Reference	5.10.3.2 3), 5.10.4 [1]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Route header in the BYE		
Test Purpose	When an IBCF receives a SIP BYE request from outside its own network subsequent to an initial request, then it shall decrypt any headers prior to forwarding the request to the UE.		
SIP Parameter values	BYE 1: Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], BYE 2: Route: <sip:[any URI 1]>;lr		
Comments	TP_IMST2_IC_SUB_04		
Message flows	**Mx**	**SUT**	**Ic**
	A confirmed dialogue is already established		
	BYE 2 ←	←	BYE 1
	200 OK BYE →	→	200 OK BYE

TP number	IBCF_209_005	Reference	5.10.3.2 3), 5.10.4 [1]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Route header in the CANCEL		
Test Purpose	When an IBCF receives a SIP CANCEL request from outside its own network subsequent to an initial request, then it shall decrypt any headers prior to forwarding the request to the UE.		
SIP Parameter values	CANCEL 1: Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], CANCEL 2: Route: <sip:[any URI 1]>;lr		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	An early dialogue is already established		
	CANCEL 2 ←	←	CANCEL 1
	200 OK CANCEL →	→	200 OK CANCEL
	Apply post test routine		

TP number	IBCF_209_006	Reference	5.10.3.3 4), 5.10.4 [1]
TSS reference	Entry_Point/nch/bcall		
Selection criteria	PICS 7.1.1/1		
Test Purpose name	Decrypt the received Route header in a subsequent INVITE request		
Test Purpose	When an IBCF receives a target refresh request from outside its own network subsequent to an initial request it shall decrypt all headers before forwarding it to the UE.		
SIP Parameter values	INVITE 1: Route: <sip:[URI of IBCF]>;lr, sip:Token(<sip:[any URI 1]>;lr), tokenized-by=[any host], INVITE 2: Route: <sip:[any URI 1]>;lr		
Comments	TP_IMST2_IC_TAR_02		
Message flows	**Mx**	**SUT**	**Ic**
	A confirmed dialogue is already established		
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

6.2.5 Application level gateway

6.2.5.1 Treatment of SIP singnaling

TP number	IBCF_210_001	**Reference**	5.10.5 [**1**], 16.3 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in INVTE unknown		
Test Purpose	Ensure that the IUT on receipt of an INVITE request from the other network with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.		
SIP Parameter values	INVITE: Request line got:[any URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE → 416 Unsupported URI Scheme ← ACK		

TP number	IBCF_210_002	**Reference**	5.10.5 [**1**], 16.3 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in INVITE received		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.		
SIP Parameter values	INVITE: Max-Forwards: 0		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE → 483 Too many hops ← ACK		

TP number	IBCF_210_003	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including a Max-Forwards header set to 5, forwards it to the own network after having decreasing this counter of one.		
SIP Parameter values	INVITE 1: Max-Forwards: 5 INVITE 2: Max-Forwards: 4		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_004	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network without a Max-Forwards header, forwards it to the own network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	INVITE 1: INVITE 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_005	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the other network including a Max-Forwards header set to 5, forwards it to the own network after having decreasing this counter of one.		
SIP Parameter values	ACK 1: Max-Forwards: 5 ACK 1: Max-Forwards: 4		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing 200 OK INVITE → → 200 OK INVITE ACK 2 ← ← ACK 1 **Apply post test routine**		

TP number	IBCF_210_006	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the other network without a Max-Forwards header, forwards it to the own network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	ACK 1: ACK 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing 200 OK INVITE → → 200 OK INVITE ACK 2 ← ← ACK 1 **Apply post test routine**		

TP number	IBCF_210_007	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in CANCEL unknown		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the other network with a Request-URI with a scheme that it does not understand, sends a Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.		
SIP Parameter values	CANCEL: Request line got:[any URI]		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← / ← INVITE 180 Ringing → / → 180 Ringing ← CANCEL → 416 Unsupported URI Scheme **Apply post test routine**		

TP number	IBCF_210_008	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in CANCEL received		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the other network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.		
SIP Parameter values	CANCEL: Max-Forwards: 0		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← / ← INVITE 180 Ringing → / → 180 Ringing ← CANCEL → 483 Too many hops **Apply post test routine**		

TP number	IBCF_210_009	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in CANCEL		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the other network, without a Max-Forwards header, forwards it to the own network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	CANCEL 1: CANCEL 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← / ← INVITE 180 Ringing → / → 180 Ringing CANCEL 2 ← / ← CANCEL 1 **Apply post test routine**		

TP number	IBCF_210_010	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	URI scheme in Bye unknown		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the other network with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response to the other network.		
SIP Parameter values	BYE: Request line got:[any URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** ← BYE → 416 Unsupported URI Scheme **Apply post test routine**		

TP number	IBCF_210_011	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards set to 0 in BYE received		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the own network including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response to the own network.		
SIP Parameter values	BYE: Max-Forwards: 0		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** ← BYE → 483 Too many hops **Apply post test routine**		

TP number	IBCF_210_012	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header decreased by one in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the other network including a Max-Forwards header set to 5, forwards it to the own network after having decreasing this counter of one.		
SIP Parameter values	BYE 1: Max-Forwards: 5 BYE 1: Max-Forwards: 4		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 2 ← ← BYE 1 **Apply post test routine**		

TP number	IBCF_210_013	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Max-Forwards header not received in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the other network, without a Max-Forwards header, forwards it to the own network after having added a Max-Forwards header with the value set to 70.		
SIP Parameter values	BYE 1: BYE 2: Max-Forwards: 70		
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE 2 ← ← BYE 1 **Apply post test routine**		

TP number	IBCF_210_014	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in INVITE		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network with the Request-URI containing a not allowed parameter, removes this parameter from the Request-URI before forwarding that message to the other network.		
SIP Parameter values	INVITE 1: Request line [URI] ;UnsupportedToken=UnsupportedValue INVITE: Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_015	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in ACK		
Test Purpose	Ensure that the IBCF on receipt of an ACK request from the other network, with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the own network.		
SIP Parameter values	ACK 1: Request line [URI] ;UnsupportedToken=UnsupportedValue ACK 2: Request line [URI]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing 200 OK INVITE → → 200 OK INVITE ACK 2 ← ← ACK 1 **Apply post test routine**		

TP number	IBCF_210_016	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in CANCEL		
Test Purpose	Ensure that the IBCF on receipt of a CANCEL request from the other network with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the own network.		
SIP Parameter values	CANCEL 1: Request line [URI] ;UnsupportedToken=UnsupportedValue CANCEL 2: Request line [URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	CANCEL 2 ←	←	CANCEL 1
	Apply post test routine		

TP number	IBCF_210_017	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Not allowed Request line URI parameter in BYE		
Test Purpose	Ensure that the IBCF on receipt of a BYE request from the other network with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message to the own network.		
SIP Parameter values	BYE 1:Request line [URI] ;UnsupportedToken=UnsupportedValue BYE 2:Request line [URI]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	BYE 2 ←	←	BYE 1
	Apply post test routine		

TP number	IBCF_210_018	**Reference**	5.10.5 [**1**], 16.6 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	200 OK does not match an existing transaction		
Test Purpose	Ensure that the IBCF, on receipt of a Success (200 OK INVITE) response from the own network that does not match to an existing client transaction with a single Via header, does not forward the message.		
SIP Parameter values	200 OK INVITE: Cseq: [any value] NOTIFY		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK →		
	Apply post test routine		

TP number	IBCF_210_019	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 100 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Trying (100 Trying) response from the own network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE 100 Trying → **Apply post test routine**		

TP number	IBCF_210_020	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 183 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Session Progress (183 Session Progress) response from the own network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE 183 Session Progress → → 183 Session Progress **Apply post test routine**		

TP number	IBCF_210_021	Reference	5.10.5 [1], 17.1.1.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The transaction enters in the Proceeding state when 180 was received		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, on receipt of a Ringing (180 Ringing) response from the own network enters in the Proceeding state. The INVITE is not repeated.		
SIP Parameter values			
Comments			
Message flows	Mx / SUT / Ic INVITE ← ← INVITE 180 Ringing → → 180 Ringing **Apply post test routine**		

TP number	IBCF_210_022	**Reference**	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP Timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state repeats its INVITE request to the own network on the timeout condition of timer A set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	Start A (T1)	← INVITE
	INVITE ←	Timeout A	
		Apply post test routine	

TP number	IBCF_210_023	**Reference**	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	TCP Timeout timer A the INVITE is not repeated		
Test Purpose	If a reliable transport (TCP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state does not repeat its INVITE request to the own network on the timeout condition of timer A set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	Start A (T1)	← INVITE
		Timeout A	
		Apply post test routine	

TP number	IBCF_210_024	**Reference**	5.10.5 [**1**], 17.1.1.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP Second timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state having already repeated its INVITE to the own network wait for a timer A set with a value of 2*T1 before sending it again.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	INVITE ←	Start A (2*T1)	
	INVITE ←	Timeout A	
		Apply post test routine	

TP number	IBCF_210_025	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP Third timeout timer A the INVITE is repeated		
Test Purpose	If an unreliable transport (UDP) is used, ensure that the IBCF, when an INVITE client transaction is in the Calling state retransmits its INVITE request to the own network with intervals that double after each transmission.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
INVITE	←			
INVITE	←	Start A (4*T1)		
INVITE	←	Timeout A		
		Apply post test routine		

TP number	IBCF_210_026	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: No ACK is sent after timeout timer B		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Calling state, when timer B set to a value of 64*T1 expires, considers the transaction terminated and does not send an ACK to the own network.		
SIP Parameter values			
Comments	After timeout timer B the INVITE is not retransmitted and no ACK is sent		

Message flows

Mx		SUT		Ic
INVITE	←	Start B (64*T1)	←	INVITE
INVITE	←			
INVITE	←			
		Timeout B		
		Apply post test routine		

TP number	IBCF_210_027	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: ACK is retransmitted until timeout timer D		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE client transaction is in the Completed state, on receipt of an unsuccessful final response from the other network that matches the transaction, repeats its ACK request until timer D set to at least 32 second expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
[any unsuccessful final response]	→		→	[any final response]
ACK	←	Start timer D	←	ACK
[any unsuccessful final response]	→			
ACK	←			
[any unsuccessful final response]	→			
ACK	←			
		Timeout timer D		
[any unsuccessful final response]	→			
		Apply post test routine		

TP number	IBCF_210_028	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	TCP: ACK is retransmitted until timeout timer D		
Test Purpose	If a reliable transport is used, ensure that the IBCF, when an INVITE client transaction is in the Completed state, on receipt of an unsuccessful final response from the own network that matches the transaction, repeats its ACK request until timeout timer D.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
[any unsuccessful final response]	→		→	[any final response]
ACK	←	Start timer D	←	ACK
[any unsuccessful final response]	→			
ACK	←			
		Timeout timer D		
[any unsuccessful final response]	→			

Apply post test routine

TP number	IBCF_210_028A	Reference	5.10.5 [1], 17.1.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	ACK is not retransmitted		
Test Purpose	Ensure that the IBCF, when an INVITE client transaction is in the Terminated state, on receipt of an 200 OK INVITE final response from the own network that matches the transaction, does not repeat its ACK request.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
200 OK INVITE	→		→	200 OK INVITE
ACK	←		←	ACK
200 OK INVITE	→			

Apply post test routine

TP number	IBCF_210_029	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE is retransmitted after timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state having sent a BYE request to the own network, repeats its request after timer E set to T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	←	Start timer E (T1)	←	BYE
BYE	←	Timeout timer E		

Apply post test routine

TP number	IBCF_210_030	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE is retransmitted after second timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state having sent twice times a BYE request to the own network, repeats its request after timer E set to the MIN(2*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows	Mx	SUT	Ic
		A session is already established	
	BYE ←	Start timer E (T1) ←	BYE
	BYE ←	Timeout timer E	
		Start timer E (2*T1)	
	BYE ←	Timeout timer E	
		Apply post test routine	

TP number	IBCF_210_031	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE is retransmitted after third timeout timer E		
Test Purpose	If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state having sent three times a BYE request to the other network, repeats its request after timer E set to the MIN(4*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows	Mx	SUT	Ic
		A session is already established	
	BYE ←	Start timer E (T1) ←	BYE
	BYE ←	Timeout timer E	
		Start timer E (4*T1)	
	BYE ←	Timeout timer E	
		Apply post test routine	

TP number	IBCF_210_032	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE is retransmitted after timeout timer E value T2		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state and the time of T2 is reached, the BYE request is retransmitted to the own network in the time of T2.		
SIP Parameter values			
Comments			

Message flows	Mx	SUT	Ic
		A session is already established	
	BYE ←	Start timer E, F (64*T1) ←	BYE
	BYE ←	Timeout timer E	
	BYE ←	Timeout timer E	
	BYE ←	Timeout timer E	
	BYE ←	Timeout timer E	
		Start E (T2)	
	BYE ←	Timeout timer E	
		Apply post test routine	

TP number	IBCF_210_033	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	The BYE is not repeated after timeout Timer F		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE client transaction is in the Trying state does not repeat a BYE request, after timer F set to 64*T1 expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	←	Start timer E, F (64*T1)	←	BYE
BYE	←	Timeout timer E		
BYE	←	Timeout timer E		
		Timeout timer F		
		Apply post test routine		

TP number	IBCF_210_034	Reference	5.10.5 [1], 17.1.2.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/7		
Test Purpose name	UDP: BYE Transaction in the terminated state		
Test Purpose	Ensure that the IBCF, when a BYE client transaction is in the Trying state, considers the transaction terminated after 64*T1 duration expires without receiving any final response.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
		A session is already established		
BYE	←	Start timer E, F (64*T1)	←	BYE
BYE	←	Timeout timer E		
BYE	←	Timeout timer E		
		Timeout timer F		
			←	BYE
			→	481 Call/Transaction Does Not Exist

TP number	IBCF_210_035	Reference	5.10.5 [**1**], 16.2, 8.2.6.2 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	INVITE received a 100 is sent		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the other network, sends a provisional (100 Trying) response to the own network including the headers From, Call-Id, CSeq and Via copied from the INVITE message.		
SIP Parameter values	INVITE: From Call-ID CSeq Via 100: From Call-ID CSeq Via		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
		→	100 Trying
	Apply post test routine		

TP number	IBCF_210_036	Reference	5.10.5 [**1**], 16.2, 8.2.6.2, 17.2.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	No tag parameter received in the INVITE, no tag parameter sent in 100		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the other network with no "tag" set on the To header, sends a provisional (100 Trying) response to the other network including the same URI and no tag in the To header.		
SIP Parameter values	INVITE: To: [any URI] (no tag) 100: To: [any URI] (no tag)		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
		→	100 Trying
	Apply post test routine		

TP number	IBCF_210_037	Reference	5.10.5 [**1**], 16.2, 8.2.6.2, 17.2.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	tag parameter received in INVITE, the same tag parameter is sent in the 100		
Test Purpose	Ensure that the IBCF, on receipt of an INVITE request from the other network with a "tag" set on the To header, sends a provisional (100 Trying) response to the other network including the same URI and the same tag in the To header.		
SIP Parameter values	INVITE: To: [any URI], tag=[any value] 100: To: [any URI], tag=[same value as in INVITE received]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	A session is already established		
	INVITE ←	←	INVITE
		→	100 Trying
	Apply post test routine		

TP number	IBCF_210_038	**Reference**	5.10.5 [**1**], 17.2.3.1, 17.2.3.2 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Last response is repeated if INVITE request received with same branch parameter		
Test Purpose	Ensure that the IBCF in a server INVITE Proceeding state, on receipt of an INVITE request from the other network, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.		
SIP Parameter values	INVITE: Via: 100: Via:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	100 Trying →		→ 100 Trying
			← INVITE
			→ 100 Trying
	Apply post test routine		

TP number	IBCF_210_039	**Reference**	5.10.5 [**1**], 17.2.1, 17.2.3 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header is sent in the repeated 486 response		
Test Purpose	Ensure that the IBCF in a server INVITE Completed state, on receipt of an INVITE request from the other network, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response sent to the other network.		
SIP Parameter values	486 1: Via: 486 2: Via:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	486 Busy Here →		→ 486 Busy Here 1
	ACK ←		
			← INVITE
			→ 486 Busy Here 2
			← ACK
	Apply post test routine		

TP number	IBCF_210_040	Reference	5.10.5 [1], 17.2.2, 17.2.3 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header is sent in the repeated 200 OK response		
Test Purpose	Ensure that the IBCF in a server BYE **Completed state**, on receipt of a BYE request, including a Via header set with the same branch parameter and sent-by value in the topmost list, repeats its last response.		
SIP Parameter values	BYE: Via: 200 OK: Via:		
Comments			

Message flows	Mx		SUT		Ic
			A session is already established		
	BYE	←		←	BYE
	200 OK BYE	→		→	200 OK BYE
				←	BYE
				→	200 OK BYE

TP number	IBCF_210_041	Reference	5.10.5 [1], 9.2, 16.10 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The same Via header in CANCEL received as in INVITE		
Test Purpose	Ensure that the IBCF in a server INVITE **Proceeding state**, on receipt of a CANCEL, including a Via header set with the same branch parameter and sent-by value with the topmost Via value INVITE to be cancelled, sends a Success (200 Success) response to the CANCEL request.		
SIP Parameter values			
Comments			

Message flows	Mx		SUT		Ic
	INVITE	←		←	INVITE
	100 Trying	→		→	100 Trying
	CANCEL	←		←	CANCEL
	200 OK CANCEL	→		→	200 OK CANCEL
	487 Request Terminated	→		→	487 Request Terminated
	ACK	←		←	ACK

TP number	IBCF_210_042	Reference	5.10.5 [1], 13.3.1.4, 17.2.3.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	State change from the Proceeding state into the Completed state		
Test Purpose	Ensure that the IBCF in a server INVITE Proceeding state, after sending a 4XX response, enters in the Completed state.		
SIP Parameter values			
Comments			

Message flows	Mx		SUT		Ic
	INVITE	←		←	INVITE
	100 Trying	→		→	100 Trying
	486 Busy Here	→		→	486 Busy Here
	ACK	←			
				→	486 Busy Here
				←	ACK

TP number	IBCF_210_043	**Reference**	5.10.5 [**1**], 13.3.1.4, 17.2.3.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	State change from the Proceeding state into the Confirmed state		
Test Purpose	Ensure that the IBCF in a server INVITE Completed state, on receipt of an ACK request, enters in the Confirmed state.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	486 Busy Here →		→ 486 Busy Here
	ACK ←		← ACK

TP number	IBCF_210_044	**Reference**	5.10.5 [**1**], 15.1.2 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	481 response to a BYE request		
Test Purpose	Ensure that the IBCF, while no dialog has been established, on receipt of a BYE request, sends a Call/Transaction does not exist (481 Call/Transaction does not exist).		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
		← BYE	
		→ 481 Call/Transaction does not exist	

TP number	IBCF_210_045	**Reference**	5.10.5 [**1**], 17.2.1, Annex A [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	Final response repeated after timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state repeats its response sent to the other network on the timeout condition of timer G set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	180 Ringing →		→ 180 Ringing
	403 Forbidden →		
		Start timer G (T1)	→ 403 Forbidden
		Timeout timer G	→ 403 Forbidden
			← ACK

TP number	IBCF_210_046	**Reference**	5.10.5 [**1**], 17.2.1, Annex A [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/8		
Test Purpose name	Final response is not repeated after timeout timer G		
Test Purpose	If a reliable transport (TCP) is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state does not repeat its response to the other network on the timeout condition of timer G set with a value of T1.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	180 Ringing →		→ 180 Ringing
	403 Forbidden →		
	←	Start timer G (T1)	→ 403 Forbidden
		Timeout timer G	
			← ACK

TP number	IBCF_210_047	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	Final response repeated after second timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and having already sent twice times its response to the other network, repeats it after timer G set MIN(2*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→			
		Start timer G (T1)	→	403 Forbidden
		Timeout timer G	→	403 Forbidden
		Start timer G (2*T1)		
		Timeout timer G	→	403 Forbidden
			←	ACK
		Apply post test routine		

TP number	IBCF_210_048	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	Final response repeated after third timeout timer G		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and having already sent three times its response to the other network, repeats it after timer G set the MIN(4*T1,T2) value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→			
		Start timer G (T1)	→	403 Forbidden
		Timeout timer G	→	403 Forbidden
		Start timer G (2*T1)		
		Timeout timer G	→	403 Forbidden
		Start timer G (4*T1)		
		Timeout timer G	→	403 Forbidden
			←	ACK

TP number	IBCF_210_049	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The terminated state is entered after timer H was expired		
Test Purpose	Ensure that the IBCF, when an INVITE server transaction is in the Completed state and, enters in the Terminated state after timer H set to 64*T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→			
		Start timer H (64*T1)	→	403 Forbidden
		Timeout timer H		
			←	ACK
			→	481 Call/Transaction does not exist

TP number	IBCF_210_050	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	Final response is not repeated after timeout timer H		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Completed state and, does not repeats its response sent to the other network after timer H set to 64*T1 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→			
		Start timer H (64*T1)	→	403 Forbidden
			→	403 Forbidden
			→	403 Forbidden
		Timeout timer H		
		Apply post test routine		

TP number	IBCF_210_051	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	The terminated state is entered after timer I was expired		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Confirmed state, enters in the Terminated state after timer I set to T4 value expires.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→		→	403 Forbidden
			←	ACK
			←	ACK
			←	ACK
			→	481 Call/Transaction does not exist

TP number	IBCF_210_052	Reference	5.10.5 [1], 17.2.1, Annex A [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/2		
Test Purpose name	The server enters immediately in the terminated state		
Test Purpose	If a reliable transport is used, ensure that the IBCF, when an INVITE server transaction is in the Confirmed state, enters immediately in the Terminated state.		
SIP Parameter values			
Comments			

Message flows

Mx		SUT		Ic
INVITE	←		←	INVITE
180 Ringing	→		→	180 Ringing
403 Forbidden	→		→	403 Forbidden
		Start timer I (T4)	←	ACK
			←	ACK
			→	481 Call/Transaction does not exist

TP number	IBCF_210_053	**Reference**	5.10.5 [**1**], 17.2.2, Annex A [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/1		
Test Purpose name	Enters from the completed state into the terminated state		
Test Purpose	If an unreliable transport is used, ensure that the IBCF, when a BYE server transaction is in the Completed state, on receipt of the repetitions of the BYE request, retransmits its response until the timer J set to 64*T1 expires.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** **A session is already established** BYE ← ← BYE 200 OK BYE → Start timer J (64*T1) → 200 OK BYE ← BYE → 200 OK BYE Timeout timer J ← BYE → 481 Call/Transaction does not exist		

TP number	IBCF_210_054	**Reference**	5.10.5 [**1**], 8.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the other network, ensure that an INVITE is sent to the own network and the Contact header contains the URI of the IBCF.		
SIP Parameter values	INVITE: Contact: <[URI of IBCF]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_055	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/6 AND PICS 7.2.4/3		
Test Purpose name	An IPv6 Address in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the other IPv4 network, ensure that an INVITE is sent to the own IPv6 network and when the Contact header contains an IP address it is an IPv6 address identifying the IBCF.		
SIP Parameter values	INVITE 2: Contact: <[5555::aaa:bbb:ccc:ddd]>		
Comments	The IPv6 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_056	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	An IPv4 Address in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the other IPv6 network, ensure that an INVITE is sent to the own IPv4 network and when the Contact header contains an IP address it is an IPv4 address identifying the IBCF.		
SIP Parameter values	INVITE 2: Contact: <[aaa.bbb.ccc.ddd]>		
Comments	The IPv4 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_057	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the Contact header in the sent INVITE		
Test Purpose	When the IBCF receives in INVITE request from the other network, ensure that an INVITE is sent to the own network and when the Contact header contains an IP address not equal to the address received from the other network.		
SIP Parameter values	INVITE 2: Contact: <[aaa.bbb.ccc.ddd]>		
Comments	The IPv4 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_058	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Unknown uri parameter in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including non-understood uri-parameters in the SIP-URI of the Contact header forwards the message to the own network.		
SIP Parameter values	INVITE: Contact: <[any URI]>;unknown=nonunderstood		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_059	Reference	5.10.5 [1], 19.1.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Header parameter present in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including a header parameter in the SIP-URI of the Contact header forwards the message to the own network.		
SIP Parameter values	INVITE: Contact: <[any URI]>;h1=%		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_060	**Reference**	5.10.5 [**1**], 19.1.1 [**19**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	method uri parameter present in the Contact header		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message to the own network.		
SIP Parameter values	INVITE: Contact: <[any URI];method=INVITE>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_061	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	One Via header is sent to the own network		
Test Purpose	Ensure that the IBCF sends an INVITE request to the own network when an INVITE request was received from the other network and one Via header entry is present identifying the IBCF. The received Via header entries are not present.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [URI of IBCF];branch=z9hG4bK…..		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_062	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	The Via header URI is a IPv6 address		
Test Purpose	When the IBCF sends an INVITE request to the own IPv6 network and the Via header value identifying the IBCF is an IP address, ensure that the IP address in the Via header is an IPv6 address.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [[5555::aaa:bbb:ccc:ddd]:>port>];branch=[any value]		
Comments	The IP v6 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_063	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	The Via header URI is a IP v4 address		
Test Purpose	When the IBCF sends an INVITE request to the own IPv4 network and the Via header value identifying the IBCF is an IP address, ensure that the IP address in the Via header is an IPv4 address.		
SIP Parameter values	INVITE 2: Via: SIP/2.0/[any transport] [aaa.bbb.ccc.ddd:<port>];branch=[any value]		
Comments	The IP v4 address is an example not a real value		
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_064	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the Via header in the sent INVITE		
Test Purpose	When the IBCF sends an INVITE request to the own network and the Via header value identifying the IBCF is an IP address, ensure that the top most IP address in the Via header is not equal to the IP address received from the other network.		
SIP Parameter values			
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_210_065	Reference	5.10.5 [1], 7.3.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Via header branch parameter with upper and lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including a branch parameter named with upper and lower cases in Via header forwards the message to the own network.		
SIP Parameter values	INVITE: Via: SIP/2.0/[any transport] [any URI];BrAnCH=z9hG4bK…..		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	Apply post test routine		

TP number	IBCF_210_066	Reference	5.10.5 [1], 7.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Successful final response with non-defined response code received		
Test Purpose	Ensure that the IBCF after having forwarded an INVITE request from the other network, on receipt of a Success (299 OK) response with non-defined last two digits forwards the message to the own network.		
SIP Parameter values	299 OK CSeq: [any value] INVITE		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	299 OK INVITE →	→	299 OK INVITE
	Apply post test routine		

TP number	IBCF_210_067	Reference	5.10.5 [1], 7.2 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Successful final response with unknown reason phrase received		
Test Purpose	Ensure that the IBCF after having forwarded an INVITE request from the other network, on receipt of a Success (200 PERFECT) response with an unknown reason phrase forwards the message to the own network.		
SIP Parameter values	200 OK PERFECT:		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK →	→	200 OK
	Apply post test routine		

TP number	IBCF_210_068	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	From header field in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network, an INVITE request is sent to the own network. Ensure that the 'tag' value of the sent From header field is different from the value received from the other network.		
SIP Parameter values	INVITE 2: From: <[any URI]>;tag=[any value]		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_069	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To header field in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network, an INVITE request is sent to the own network. Ensure that no 'tag' value is present in the To header field in the INVITE sent to the own network.		
SIP Parameter values	INVITE 2: To: <[any URI]>		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_070	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To tag in the sent 180		
Test Purpose	When the IBCF receives a 180 Ringing response from the own network, a 180 Ringing response is sent to the other network. Ensure that the 'tag' value sent to the other network is not equal to the value received from the own network		
SIP Parameter values			
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing **Apply post test routine**		

TP number	IBCF_210_071	Reference	5.10.5 [1], 8.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	To tag in the sent 183		
Test Purpose	When the IBCF receives a 183 Session Progress response from the own network, a 183 Session Progress response is sent to the other network. Ensure that the 'tag' value sent to the other network is not equal to the value received from the own network.		
SIP Parameter values			
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← ← INVITE 183 Session Progress → → 183 Session Progress **Apply post test routine**		

TP number	IBCF_210_072	Reference	5.10.5 [1], 7.3.3 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Headers with short name included		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network including headers set with short names forwards the message to the own network.		
SIP Parameter values	INVITE: f: <[any URI]>;tag=[any value] t: <[any URI]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_073	Reference	5.10.5 [1], 7.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	SIP version in request line in lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the other network with SIP version in lower case forwards the message to the own network.		
SIP Parameter values	INVITE: sip: [any URI]sip/2.0		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_074	Reference	5.10.5 [1], 7.3.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	SIP header field names in upper and lower cases		
Test Purpose	Ensure that the IBCF on receipt of an INVITE request from the own network including headers named with upper and lower cases forwards the message to the other network.		
SIP Parameter values	INVITE: frOM: <[any URI]>;tag=[any value] tO: <[any URI]>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_075	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Call-ID in the sent INVITE establishes a new call leg		
Test Purpose	When the IBCF receives an INVITE request from the other network, an INVITE request is sent to the own network. Ensure that the Call-ID value is different from the Call-ID value received from the other network.		
SIP Parameter values	INVITE 2: Call-ID: [any value]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_077	Reference	5.10.5 [1], 21.4.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	INVITE request without Call-ID header not supported		
Test Purpose	Ensure that the IUT, on receipt of an INVITE request from the other network without Call-Id header sends a Bad Request (400 Bad Request) response.		
SIP Parameter values	INVITE: Call-ID header not present		
Comments			
Message flows	**Mx** **SUT** **Ic** ← INVITE → 400 Bad Request ← ACK		

TP number	IBCF_210_078	Reference	5.10.5 [1], 21.4.1 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/2		
Test Purpose name	INVITE request with several CRLF before start-line supported		
Test Purpose	Ensure that the IUT, on receipt of a INVITE request from the other network over a stream-oriented (TCP) transport with several CRLF before the start-line, forwards the message.		
SIP Parameter values			
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE ← ← INVITE **Apply post test routine**		

TP number	IBCF_210_079	Reference	5.10.5 [1], 16.6 [19]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	The **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network ensure that an INVITE request is sent to the own network and if the Record-Route header entry is present it contains the address of the IBCF.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[URI of IBCF];lr>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_080	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv6 address in the **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other IPv4 network ensure that an INVITE request is sent to the own IPv6 network and when the Record-Route header contains an IP address identifying the IBCF it is an IP v6 address.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[5555::aaa:bbb:ccc:ddd];lr>		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_210_081	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 address in the **Record-Route** header in the sent INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other IPv6 network ensure that an INVITE request is sent to the own IPv4 network and when the Record-Route header contains an IP address identifying the IBCF it is an IP v4 address.		
SIP Parameter values	INVITE 2: Record-Route: <sip:[aaa.bbb.ccc.ddd];lr>		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_210_082	Reference	55.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	GRUU received in Contact header GRUU is sent		
Test Purpose	When an IBCF processes a SIP request or response that contains a contact address which is a Globally Routable User agent URI (GRUU), it shall replace the contact address with an address which is also a GRUU.		
SIP Parameter values	INVITE Contact header GRUU 200 OK: Contact header GRUU		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

TP number	IBCF_210_083	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sip		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	No GRUU received in Contact header no GRUU is sent		
Test Purpose	When an IBCF processes a SIP request or response that contains a contact address which is not a Globally Routable User agent URI (GRUU), it shall replace the contact address with an address which is not a GRUU.		
SIP Parameter values	INVITE: Contact header no GRUU 200 OK: Contact header no GRUU		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE →	→	200 OK INVITE
	Apply post test routine		

6.2.5.2 Treatment of session and media description

TP number	IBCF_211_001	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'o' line contains the IP address from the owner/creator in the other network, ensure that an INVITE request is sent to the own network and the SDP contains an 'o' line the IP address is set to the IP address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] or o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF] or o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 2 **Apply post test routine**		

TP number	IBCF_211_002	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'o' line contains the IP address from the owner/creator in the other network and is an IPv4 address, ensure that an INVITE request is sent to the own network and the SDP contains an 'o' line the IP address is set to the IPv6 address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_211_003	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'o' line contains the IP address from the owner/creator in the other network and is an IPv6 address, ensure that an INVITE request is sent to the own network and the SDP contains an 'o' line the IP address is set to the IPv4 address of the IBCF of the own network.		
SIP Parameter values	INVITE 1: SDP o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] INVITE 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF]		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_211_004	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'o' line contains the IP address from the owner/creator in the own network, ensure that a 200 OK INVITE response is sent to its other network and the SDP contains an 'o' line the IP address is set to the IP address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] or o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF] or o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx** / **SUT** / **Ic** INVITE ← ← INVITE 180 Ringing → → 180 Ringing 200 OK INVITE 1 → → 200 OK INVITE 2 **Apply post test routine**		

TP number	IBCF_211_005	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'o' line contains the IP address from the owner/creator in the own network and is an IPv4 address, ensure that a 200 OK INVITE response is sent to the other network and the SDP contains an 'o' line the IP address is set to the IPv6 address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP4 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP6 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_006	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the o line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'o' line contains the IP address from the owner/creator in the own network and is an IPv6 address, ensure that a 200 OK INVITE response is sent to the other network and the SDP contains an 'o' line the IP address is set to the IPv4 address of the IBCF of the own network.		
SIP Parameter values	200 OK 1: SDP o=[any value] [any value] [any value] IN IP6 [IP address owner (PIXIT)] 200 OK 2: SDP o=[any value] [any value] [any value] IN IP4 [IP address IBCF]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_007	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'c' line contains the IP address from the data connection in the other network, ensure that an INVITE request is sent to the own network and the SDP contains a 'c' line the IP address is set to the IP address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP4 [data connection address (PIXIT)] or c=IN IP6 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP4 [IP address TrGW or c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_211_008	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from the other network and the 'c' line contains the IP address from the data connection in the other network and is an IPv4 address, ensure that an INVITE request is sent to the own network and the SDP contains a 'c' line the IP address is set to the IPv6 address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP4 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP6 [IP address TrGW		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_211_009	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the INVITE		
Test Purpose	When the IBCF receives an INVITE request from its other network and the 'c' line contains the IP address from the data connection in the other network and is an IPv6 address, ensure that an INVITE request is sent to the own network and the SDP contains a 'c' line the IP address is set to the IPv4 address of the TrGW of the own network.		
SIP Parameter values	INVITE 1: SDP c=IN IP6 [data connection address (PIXIT)] INVITE 2: SDP c=IN IP4 [IP address TrGW]		
Comments			
Message flows	**Mx** **SUT** **Ic** INVITE 2 ← ← INVITE 1 **Apply post test routine**		

TP number	IBCF_211_010	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Network address translation in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'c' line contains the IP address from the data connection in the own network, ensure that a 200 OK INVITE response is sent to its other network and the SDP contains a 'c' line the IP address is set to the IP address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP4 [data connection address (PIXIT)] or c=IN IP6 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP4 [IP address TrGW or c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_011	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/4 AND PICS 7.2.4/5		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'c' line contains the IP address from the data connection in the own network and is an IPv4 address, ensure that a 200 OK INVITE response is sent to the other network and the SDP contains a 'c' line the IP address is set to the IPv6 address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP4 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP6 [IP address TrGW]		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_012	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.4/3 AND PICS 7.2.4/6		
Test Purpose name	IPv4 to IPv6 IP version interworking in the c line of the 200 OK INVITE		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the 'c' line contains the IP address from the data connection in the own network and is an IPv6 address, ensure that a 200 OK INVITE response is sent to the other network and the SDP contains a 'c' line the IP address is set to the IPv4 address of the TrGW of the own network.		
SIP Parameter values	200 OK 1: SDP c=IN IP6 [data connection address (PIXIT)] 200 OK 2: SDP c=IN IP4 [IP address TrGW		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←	←	INVITE
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_013	Reference	5.10.7 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	The IBCF adds codecs to the coded list in the offer		
Test Purpose	When the IBCF receives an INVITE request from the other network and the a SDP is present, the IBCF sends an INVITE request to the own network and the IBCF adds one or more codecs to the selected media at the end of the received codec list.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..)		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_211_014	**Reference**	5.10.7 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	The IBCF removes previous added codecs from the SDP answer		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the received SDP contains the codecs previous added to the SDP in the INVITE request sent to the own network, it removes this codecs from the codec list before sending the 200 OK INVITE to the other network.		
SIP Parameter values	INVITE1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 1: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 2: m=audio <port number> RTP/AVP 8 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_015	**Reference**	5.10.7 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	No transcoding performed		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and at least one of the codecs contained in the INVITE sent to the own network is present in the response from the own network, no transcoding is performed by the IBCF. The received codec is contained in the 200 OK INVITE response sent to its other network.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 200 OK 1: m=audio <port number> RTP/AVP 0 200 OK 2: m=audio <port number> RTP/AVP 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_016	Reference	5.10.7 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2 AND PICS 7.2.5/1 AND PICS 7.2.5/2		
Test Purpose name	Transcoding performed in the IBCF		
Test Purpose	When the IBCF receives a 200 OK INVITE response from the own network and the SDP answer does not contain a codec belonging to the offer received in the INVITE from the other network, the IBCF performs transcoding. A 200 OK INVITE is sent to the other network and one of the codecs in the codec list received in the offer from the other network is present in the SDP answer and the m line is not set to a non-zero port value.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 INVITE 2: m=audio <port number> RTP/AVP 8 0 <codec1> (<codec2> ..) 200 OK 1: m=audio <port number> RTP/AVP <codec1> 200 OK 2: m=audio <port number> RTP/AVP 8 or m=audio <port number> RTP/AVP 0		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	180 Ringing →	→	180 Ringing
	200 OK INVITE 1 →	→	200 OK INVITE 2
	Apply post test routine		

TP number	IBCF_211_017	Reference	5.10.5 [1]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Passing of more than one m lines		
Test Purpose	When the IBCF receives an INVITE request from the other network and the SDP contains more than one m lines, an INVITE request is sent to the own network and all received m lines are present in the SDP.		
SIP Parameter values	INVITE 1: m=audio <port number> RTP/AVP 8 0 m=video 3400 RTP/AVP 98 a=rtpmap:98 H263 INVITE 2: m=audio <port number> RTP/AVP 8 0 m=video 3400 RTP/AVP 98 a=rtpmap:98 H263		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE 2 ←	←	INVITE 1
	Apply post test routine		

TP number	IBCF_211_018	**Reference**	5.10.5 [**1**]
TSS reference	Entry_Point/alg/sdp		
Selection criteria	PICS 7.1.1/2		
Test Purpose name	Passing of request of resource reservation		
Test Purpose	When the IBCF receives an INVITE request from the other network and preconditions are requested, all requests and responses belonging to the precondition procedure are passed and the relevant SDP content is passed unchanged.		
SIP Parameter values	INVITE: Supported: precondition, 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos none remote sendrecv 183: Require: 100rel SDP a=curr:qos local none a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv a=conf:qos remote sendrecv UPDATE: SDP a=curr:qos local sendrecv a=curr:qos remote none a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv 200 OK UPDATE SDP a=curr:qos local sendrecv a=curr:qos remote sendrecv a=des:qos mandatory local sendrecv a=des:qos mandatory remote sendrecv		
Comments			
Message flows	**Mx**	**SUT**	**Ic**
	INVITE ←		← INVITE
	183 Session Progress →		→ 183 Session Progress
	PRACK ←		← PRACK
	200 OK PRACK →		→ 200 OK PRACK
	UPDATE ←		← UPDATE
	200 OK UPDATE →		→ 200 OK UPDATE
	Apply post test routine		

Annex A (informative): Bibliography

ETSI TS 124 447: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); TISPAN; NGN IMS Supplementary Services; Advice Of Charge (AOC) (3GPP TS 24.447 Release 8)".

ETSI TS 129 658: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; TISPAN; SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification (3GPP TS 29.658 Release 8)".

History

Document history		
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V3.2.1	July 2014	Publication