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Conformance test specification for the session initiation protocol – Part 2: Test suite structure and test purposes

Recommendation ITU-T Q.3946.2



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Recommendation ITU-T Q.3946.2

Conformance test specification for the session initiation protocol – Part 2: Test suite structure and test purposes

Summary

Recommendation ITU-T Q.3946.2 specifies a Test Suite Structure and Test Purposes (TSS&TP) for the SIP protocol as described in IETF RFC 3261, "Session Initiation Protocol". This Recommendation has been produced by ETSI TS 102 027-2 and is endorsed by ITU-T without modifications.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Q.3946.2	2013-04-29	11	11.1002/1000/11928

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Recommendation ITU-T Q.3946.2

Conformance test specification for the session initiation protocol – Part 2: Test suite structure and test purposes

1 Scope

Recommendation ITU-T Q.3946.2 provides a Test Suite Structure and Test Purposes (TSS&TP) for the Session Initiation Protocol (SIP) implementation in compliance with the relevant requirements specified in [IETF RFC 3261].

The Recommendation is Part 2 of a multi-part deliverable covering Conformance Test Specification for SIP ([IETF RFC 3261]), as identified below:

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

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

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma".

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ETSI TS 102 027-2]	ETSI TS 102 027-2 V4.1.1 (2006-07), Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 2: Test Suite Structure and Test Purposes (TSS&TP).
[IETF RFC 3261]	IETF RFC 3261 (2002), SIP: Session Initiation Protocol.
[ISO/IEC 9646]	ISO/IEC 9646: (all parts), Information technology – Open Systems Interconnection – Conformance testing methodology and framework.
[ISO/IEC 9646-1]	ISO/IEC 9646-1:1994, Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts.
[ISO/IEC 9646-2]	ISO/IEC 9646-2:1994, Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 2: Abstract Test Suite specification.
[ISO/IEC 9646-3]	ISO/IEC 9646-3:1998, Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 3: The Tree and Tabular Combined Notation.

3 Definitions

3.1 Terms defined elsewhere

For the purposes of this Recommendation, the terms and definitions given in [IETF RFC 3261], [ISO/IEC 9646-1], [ISO/IEC 9646-2] and [ISO/IEC 9646-3] apply.

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3.2 Terms defined in this Recommendation

This Recommendation defines the following terms:

3.2.1 callee: SIP entity that is requested to participate to a session by receiving an INVITE message.

3.2.2 caller: SIP entity that initiates a session by sending an INVITE message.

3.2.3 dialog: Identifier defined as the combination of the remote address, local address and Call-ID.

3.2.4 inopportune (O): Test group that handles invalid signalling exchanges of messages, which are properly structured and correctly encoded.

3.2.5 invalid (I): Test group that handles valid signalling exchanges of messages, which are either not properly structured or incorrectly encoded.

3.2.6 test purpose (TP): Non-formal high-level description of a test, mainly using text.

NOTE – This test description can be used as the basis for a formal test specification (e.g., Abstract Test Suite in TTCN). See [ISO/IEC 9646].

3.2.7 valid (V): Test group that handles valid signalling exchanges of messages, which are properly structured and correctly encoded.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

ATS	Abstract Test Suite
CE	Call Establishment
CR	Call Release
Ι	Invalid
IUT	Implementation Under Test
MG	Messaging
0	inopportune
OE	Originating Endpoint
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation extra Information for Testing
PR	Proxy
RD	Redirect server
RG	Registration
RR	Registrar
RT	Registrant
SIP	Session Initiation Protocol
SM	Session Modification
TE	Terminating Endpoint
ТСР	Transmission Control Protocol
ТР	Test Purpose

TR	Transport
TSS	Test Suite Structure
UA	User Agent
UDP	User Datagram Protocol
V	Valid

5 Test suite structure (TSS)

5.1 Introduction

5.1.1 SIP entities

Test purposes have been written for SIP entities according to [IETF RFC 3261].

Four kinds of entities are considered successively as IUT (see Figure 1):

- User agent behaving as client or Server.
- Registrar.
- Proxy (outbound and simple proxy).
- Redirect server.



Figure 1 – SIP protocol entities

5.1.2 General assumptions

Test purposes have been written for behaviours requested with "MUST" or that appear as obvious in present form.

Several proxy servers may forward the requests, but the test purposes are written from the point of view of one SIP entity only. The client can be either a user agent client or the client portion of a proxy server.

SDP has been considered as the method used to describe the session, but no test purposes have been written to check the SDP content itself as it is out of scope.

Proxy, redirect server, registrar and UA shall support both UDP and TCP as transport layer.

SIP entities are considered in the present document to be addressed with SIP-URLs, except for test purposes that validate the IUT's behaviour upon reception of non SIP-URLs.

The verb "ignore" in test purpose means that the IUT does not react with an error message and does not take into account the element to be ignored. When this element is an undefined Header field, according to section 10 of [IETF RFC 3261], proxy shall not remove or modify it.

The adjective "unknown" means in the test purpose not defined in [IETF RFC 3261] while "non-understood" means unknown from the point of view of the IUT.

The mandatory header fields like CALL-ID, Cseq, From, To and Via are supposed to be present in all messages as Max-Forwards in Request message without stressing this requirement in each test purpose (see sections 8.1.1 and 8.2.6 of [IETF RFC 3261]).

5.1.3 System under test

In SIP, a client can either sends its request directly to the Request-URI or to its outbound proxy. It can also ask for SIP URL to a redirect server before sending its request. Test purpose will apply depending of the current tested configuration.

Three kinds of sessions have been considered in this Recommendation:

- Call using a proxy.
- Direct call with no proxy.
- Call using a redirect server.

5.2 **Overview of the test suite structure (TSS)**

The test suite structure (TTS) is based on SIP entities and assumptions as described in clause 5.1.2.

Figure 2 shows the TSS for SIP.

Last Sub groups may be subdivided in three subgroups: Valid behaviour (V), Invalid behaviour (I), Inopportune behaviour (O).

Test Suite	Main Functionalities	Role	Functionalities su	lbgroups	Test group
SIP	Registration	Registrant			V
		Registrar			V-I-O
	Call control	Originating	Call establishment		V-Timers
		endpoint	Call release		V-I-Timers
			Session modification	n	V
		Terminating	Call establishment		V-I-Timers
		endpoint	Call release		V-I-Timers
			Session modification	n	V-I
		Proxy	Message	Request	V-I
			processing	Response	V
			Transaction	Client	V-Timers
				Server	V-Timers
		Redirect server	Call establishment		V
			Call release		V
	Querying for capabilities	Originating endpoint	Asking for capabilit	ies	
		Terminating endpoint	Responding for capa	abilities	
		Proxy	Responding for capabilities		
	Messaging	Registrant			V-I
		Registrar			V-I
		Originating endpoint			V-I
		Terminating endpoint			V-I
		Proxy			V-I
		Redirect server			V-I

Figure 2 – TSS for SIP

6 TP naming convention

6.1 Introduction

Identifier: <protocol>_<main functionality="">_<role>_<functionality>_<type>_<nn></nn></type></functionality></role></main></protocol>	
<protocol></protocol>	SIP
<main functionality=""></main>	Registration (RG), Call Control (CC), Querying for capabilities (QC), Messaging (MG)
<role></role>	Registrant (RT), Registrar (RR) Originating Endpoint (OE), Terminating Endpoint (TE), Proxy (PR), Redirect (RD)
<functionality> (optional)</functionality>	Call Establishment (CE), Call Release (CR), Session modification (SM), Message Processing (MP)
<sub-functionality> (optional)</sub-functionality>	Request (RQ), Response (RS), Client (CL), Server (SE)
<type></type>	Valid Behaviour (V), Invalid Behaviour (I), Inopportune Behaviour (O)
<nnn></nnn>	sequential number (001-999)

Table 1 – TP identifier naming convention scheme

6.1.2 State definitions during a call

For more clarity and consistency, states defined in Figures 5 to 8 in [IETF RFC 3261], have been reused in the wording of test purposes.

6.1.3 TP structure

Each test purpose is decomposed in seven keywords.

The TPId gives a unique identifier to each test purpose.

- "Status" specifies, when a test purpose is optional, the selection condition according to [IETF RFC 3261] PICS document. It specifies also when is set to "Recommended" that the requirement appears in [IETF RFC 3261] with a "SHOULD" statement. The group status applies to all test purposes belonging to this group. When no status is specified, mandatory shall be assumed. A reference to the PICS proforma is given in the form PICS: A.xx/y.y, where xx is the table number in Annex A and y.y is a row reference.
- "Ref." outlines the references in [IETF RFC 3261] used to create the test purpose.
- "Purpose" describes the objective of the test.

6.2 Test purposes for registration

6.2.1 Registrant

Group selection: Registration being listed as an option, the test purpose is applicable if the SUT is declared as supporting periodic registration and can behave as User Agent.

Status: PICS: A.1/1 and A.2/1.

6.2.1.1 Valid behaviour

TPId:	SIP_RG_RT_V_001
Status:	Mandatory.
Ref:	Section 10.2 of [IETF RFC 3261].

6 Rec. ITU-T Q.3946.2 (04/2013)

Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to its registrar, without user name in the Request-URI and with a SIP-URI as request-URI.
TPId:	SIP_RG_RT_V_002
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER request is able to receive a Success (200 OK) response containing its current registration list in the Contact header and an expires parameter in the header.
TPId:	SIP_RG_RT_V_003
Status:	PICS: A.3/1.1.
Ref:	Section 10.2.6 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to its pre-configured registrar address and without username.
TPId:	SIP_RG_RT_V_004
Status:	PICS: A.3/1.2.
Ref:	Section 10.2.6 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to host part of address of record as the Request-URI and without username.
TPId:	SIP_RG_RT_V_005
Status:	PICS: A.3/1.3.
Ref:	Section 10.2.6 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to the well-known "all SIP servers" multicast address "sip.mcast.net" (224.0.1.75) and without username.
TPId:	SIP_RG_RT_V_006
Status:	Void.
TPId:	SIP_RG_RT_V_007
Status:	PICS: A.8/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its REGISTER request with an Authorization header and with an incremented Cseq value.
TPId:	SIP_RG_RT_V_008
Status:	Mandatory.
Ref:	Section 10.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to its registrar, with an address-of record in the To header of type SIP URI.

TPId:	SIP_RG_RT_V_009
Status:	Mandatory.
Ref:	Section 10.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to be registered, sends a REGISTER request to its registrar, with the same URI in the From and the To header.
TPId:	SIP_RG_RT_V_010
Status:	Mandatory.
Ref:	Section 10.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request to which no final response was received, does not send a new registration before expiration of the initial request.
TPId:	SIP_RG_RT_V_011
Status:	Mandatory AND PICS: A.3/4.
Ref:	Section 10.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER request, will increment the CSeq value by one in the next new REGISTER request with the same Call-ID.
TPId:	SIP_RG_RT_V_012
Status:	Recommended AND PICS: A.3/4.
Ref:	Section 10.2.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, already registered, sends at least one REGISTER request, during the shortest lifetime indicated in the Expires parameter of Contact addresses of the Success (200 OK) response it has received, using the same Call-ID as in the previous REGISTER request.
TPId:	SIP_RG_RT_V_013
Status:	Recommended AND PICS: A.3/3.
Ref:	Section 10.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to remove an existing binding sends a REGISTER request, with Expires parameter set to zero in the Contact headers or an Expires header set to 0 when Contact field is set to "*".
TPId:	SIP_RG_RT_V_014
Status:	PICS: A.3/5.
Ref:	Section 10.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to get its registered contacts, sends a REGISTER request to its registrar without Contact header.
TPId:	SIP_RG_RT_V_015
Status:	PICS: A.3/6.
Ref:	Section 10.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to suggest an expiration interval for its binding, sends a REGISTER request to its registrar with either an Expires header field or "expires" Contact header parameter.

TPId:	SIP_RG_RT_V_016
Status:	PICS: A.3/7.
Ref:	Section 10.2.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, in order to order its bindings, to indicate a relative preference for the list in the Contact header field value, sends a REGISTER request to its registrar with "q" Contact header parameter.
TPId:	SIP_RG_RT_V_017
Status:	PICS: A.3/8.
Ref:	Section 10.2.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER request is able to receive a Success (200 OK) response containing a Date header field.
TPId:	SIP_RG_RT_V_018
Status:	PICS: A.8/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its REGISTER request with an Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
TPId:	SIP_RG_RT_V_019
Status:	PICS: A.8/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER message, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its REGISTER request with a Proxy-Authorization header and with an incremented Cseq value.
TPId:	SIP_RG_RT_V_020
Status:	PICS: A.8/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a REGISTER message, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its REGISTER request with a Proxy-Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
6.2.1.2 Timers	
TPId:	SIP_RG_RT_TI_001
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent a REGISTER request, repeats its request after timer E set to T1 value expires.
TPId:	SIP_RG_RT_TI_002

Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent twice times a REGISTER request, repeats its request after timer E set to the MIN(2*T1,T2) value expires.
TPId:	SIP_RG_RT_TI_003
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent three times a REGISTER request, repeats its request after timer E set to the MIN(4*T1,T2) value expires.
TPId:	SIP_RG_RT_TI_004
Status:	PICS: A.15/5.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT does not repeat a REGISTER request, after timer F set to 64*T1 expires.
TPId:	SIP_RG_RT_TI_005
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a REGISTER client transaction is in the Proceeding state, repeats its REGISTER request after timer E set to T1 value expires.
TPId:	SIP_RG_RT_TI_006
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a REGISTER client transaction is in the Proceeding state and REGISTER request have been already repeated in this state, repeats its REGISTER request after timer E set to T2 value expires.
TPId:	SIP_RG_RT_TI_007
Status:	PICS: A.15/5.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a REGISTER client transaction is in the Proceeding state, does not repeat its REGISTER request, after timer F set to 64*T1 expires.
6.2.2 Registrar	

Status: PICS: A.1/2.

REGISTER message can be received either on unicast or multicast address, depending of IUT ability (PICS: A.63/4 or A.63/5).

6.2.2.1 Valid behaviour

TPId:	SIP_RG_RR_V_001
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER and without user name in the Request-URI, sends a Success (200 OK) response, containing all current bindings listed in the Contact header, with the expires parameter for each Contact value.
TPId:	SIP_RG_RR_V_002
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including multiple Contact header sends a Success (200 OK) response, and adds these addresses to the current bindings list.
TPId:	SIP_RG_RR_V_003
Status:	Mandatory.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a successive REGISTER with the same Call-ID but with different Contact header answers successively each of them with a Success (200 OK) response, and adds these addresses to the current bindings list.
TPId:	SIP_RG_RR_V_004
Status:	PICS: A.63/6.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a From header addressing a different entity than that addressed by the To header (third party registration), sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_005
Status:	Mandatory.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of periodic REGISTER request with the same Call-ID and Contact header, and with an increasing CSeq number answers each of them with a Success (200 OK) response.
TPId:	SIP_RG_RR_V_006
Status:	Mandatory.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when the UA is already registered, on receipt of REGISTER request without Contact header, sends a Success (200 OK) response including the expiration time of the registration in an expires parameter in the Contact header.

TPId:	SIP_RG_RR_V_007
Status:	Mandatory.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including an Expires header, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_008
Status:	Mandatory.
Ref:	Sections 10.2 and 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including an Expires parameter in the Contact header, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_009
Status:	Mandatory.
Ref:	Sections 10.2 and 20.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a Contact header without display name, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_010
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to * and an Expires header set to zero, and Call-ID is the same as the stored Call-ID value and CSeq is greater than the stored CSeq value of that binding, removes that binding and sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_011
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to * and an Expires header set to zero, and Call-ID is different from the stored Call-ID value of that binding, removes that binding and sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_012
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is not in the bindings list, and the received expiration time other than zero, and Call-ID is different from the stored Call-ID value of that binding, adds that binding to the list and sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_013
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].

Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with a Call-ID different from the value stored for that binding, and an expiration time other than zero, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_014
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with a Call-ID different from the value stored for that binding, and an expiration time set to zero, deletes that binding and sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_015
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with the same Call-ID as the value stored for that binding, CSeq is greater than the stored CSeq value of that binding, and an expiration time other than zero, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_016
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with the same Call-ID as the value stored for that binding, CSeq is greater than the stored CSeq value of that binding, and an expiration time equal to zero, deletes that binding and sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_017
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a call is currently established, on receipt of a REGISTER request, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_018
Status:	PICS: A.68/1.
Ref:	Sections 10.3 (item 3) and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request not including an Authorization or Proxy-Authorization header fields, sends an Unauthorized (401 Unauthorized) or Proxy Authentication Required (407 Proxy Authentication Required) response, containing a WWW-Authenticate or a Proxy-Authenticate header.

TPId:	SIP_RG_RR_V_019
Status:	PICS: A.68/1.
Ref:	Section 10.3, item 4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request, but the authenticated user not authorized to modify this address-of record, sends a Forbidden (403 Forbidden) response.
TPId:	SIP_RG_RR_V_020
Status:	PICS: A.63/2.
Ref:	Section 10.2.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER and including "q" Contact header parameter, sends a Success (200 OK) response.
TPId:	SIP_RG_RR_V_021
Status:	PICS: A.68/1.
Ref:	Sections 10.3 (item 3) and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request not including an Authorization or a Proxy-Authorization header fields, sends an Unauthorized (401 Unauthorized) or Proxy Authentication Required (407 Proxy Authentication Required) response, containing a WWW-Authenticate or a Proxy-Authenticate header including proper value for realm and nonce HTTP parameters.
TPId:	SIP_RG_RR_V_022
Status:	PICS: A.68/1.
Ref:	Sections 10.3 (item 3) and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an Unauthorized (401 Unauthorized) or a Proxy Authentication Required (407 Proxy Authentication Required) response to a REGISTER request, on receipt of a REGISTER request including a valid Authorization or Proxy-Authorization header field, sends a Success (200 OK) response.
6.2.2.2 Invalid	d behaviour
TPId:	SIP_RG_RR_I_001
Status:	Mandatory.
Ref:	Section 10.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a To header from which the extracted address-of-record is not valid for the domain in the Request-URI, sends a Request Failure (404 Not Found) response.
TPId:	SIP_RG_RR_I_002
Status:	Mandatory.
Ref:	Sections 10.3 and 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a user name in the SIP URI as the Request-URI, sends a Success (200 OK) response.

SIP_RG_RR_I_003
Mandatory.
Section 10.3 of [IETF RFC 3261].
Ensure that the IUT on receipt of a REGISTER request including a Contact header set to "*" together with an additional Contact header, sends a Client error (400 Bad Request) response.
SIP_RG_RR_I_004
Mandatory.
Section 10.3 of [IETF RFC 3261].
Ensure that the IUT on receipt of a REGISTER request including a Contact header set to "*", and an Expires header with an expiration time set to other than zero, sends a Client error (400 Bad Request) response.
ne behaviour
SIP_RG_RR_O_001
Mandatory.
Section 10.3 of [IETF RFC 3261].
Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to * and an Expires header set to zero, and Call-ID is the same as the stored Call-ID value and CSeq is equal to the stored CSeq value of that binding, does not remove that binding and sends a Success (200 OK) response.
SIP_RG_RR_O_002
Mandatory.
Section 10.3 of [IETF RFC 3261].
Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with the same Call-ID as the value stored for that binding, CSeq is equal to the stored CSeq value of that binding, and an expiration time other than zero, sends a Server Failure (500 Server Error) response.
SIP_RG_RR_O_003
Mandatory.
Section 10.3 of [IETF RFC 3261].
Ensure that the IUT when a binding already registered, on receipt of a REGISTER request including a Contact header set to an address which is in the bindings list with the same Call-ID as the value stored for that binding, CSeq is equal to the stored CSeq value of that binding, and an expiration time equal to zero, does not remove that binding and sends a Server Failure (500 Server Error) response.

6.3 Test Purposes for call control

6.3.1 Originating	endpoint
Group selection:	IUT is a user agent.
Status:	PICS: A.1/1.
6.3.1.1 Call estab	lishment
Group selection:	IUT can behave as a user agent client to establish a call.
Status:	PICS: A.16/1.1.
6.3.1.1.1 Valid beh	aviour
TPId:	SIP_CC_OE_CE_V_001
Status:	Mandatory.
Ref:	Section 8.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including at least To, From, CSeq, Call-ID, Max-Forwards, Contact and Via headers.
TPId:	SIP_CC_OE_CE_V_002
Status:	Recommended.
Ref:	Section 8.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request with a Request-URI set to the same URI value of the To header.
TPId:	SIP_CC_OE_CE_V_003
Status:	Mandatory.
Ref:	Section 8.1.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including a To header set to an address of the callee and without TAG parameter.
TPId:	SIP_CC_OE_CE_V_004
Status:	Mandatory.
Ref:	Section 8.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including a From header with a TAG parameter.
TPId:	SIP_CC_OE_CE_V_005
Status:	Mandatory.
Ref:	Section 8.1.1.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including a CSeq header with a method that matches "INVITE".
TPId:	SIP_CC_OE_CE_V_006
Status:	Recommended.
Ref:	Section 8.1.1.6 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including a Max-Forward header set to 70.

TPId:	SIP_CC_OE_CE_V_007
Status:	Mandatory.
Ref:	Section 8.1.1.7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including a Via header with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter set to a value beginning with "z9hG4bK".
TPId:	SIP_CC_OE_CE_V_008
Status:	PICS: A.22/2.5.
Ref:	Section 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, to establish a call sends an INVITE request including Allow and Supported headers.
TPId:	SIP_CC_OE_CE_V_009
Status:	Mandatory.
Ref:	Sections 8, 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Trying (100 Trying) response enters in the Proceeding state.
TPId:	SIP_CC_OE_CE_V_010
Status:	Mandatory.
Ref:	Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Session Progress (183 Session Progress) response enters in the Proceeding state.
тріч	SIP CC OE CE V 011
1110.	
Status:	Mandatory.
Status: Ref:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261].
Status: Ref: Purpose:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state.
Status: Ref: Purpose: TPId:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012
Status: Ref: Purpose: TPId: Status:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory.
Status: Ref: Purpose: TPId: Status: Ref:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261].
Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Trying (100 Trying) response stays in the Proceeding state.
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Trying (100 Trying) response stays in the Proceeding state. SIP_CC_OE_CE_V_013
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Trying (100 Trying) response stays in the Proceeding state. SIP_CC_OE_CE_V_013 Mandatory.
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref: Ref:	 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (199 Unknown) response enters in the Proceeding state. SIP_CC_OE_CE_V_012 Mandatory. Sections 8.1.3.2 and 13.2.2.1, Figure 5 of [IETF RFC 3261]. Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Trying (100 Trying) response stays in the Proceeding state. SIP_CC_OE_CE_V_013 Mandatory. Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.3 of [IETF RFC 3261].

TPId:	SIP_CC_OE_CE_V_014
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Success (200 OK) response sends an ACK request.
TPId:	SIP_CC_OE_CE_V_015
Status:	Recommended.
Ref:	Section 8.1.3.3, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Success (200 OK) response with more than one Via header value does not send an ACK request, discards the response.
TPId:	SIP_CC_OE_CE_V_016
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response sends an ACK request with the same CSeq sequence number as in the original INVITE request and the CSeq method field value set to "ACK".
TPId:	SIP_CC_OE_CE_V_017
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response sends an ACK request with the To header set to the same value as in the received final response.
TPId:	SIP_CC_OE_CE_V_018
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including a To header without TAG sends an ACK request with a To header without TAG.
TPId:	SIP_CC_OE_CE_V_019
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.4, Figure 5 and 17.1.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of Success (200 OK) responses differing only on the tag in the To header, sends an ACK request with a To header identical to the received one for each received Success (200 OK) responses.
TPId:	SIP_CC_OE_CE_V_020
Status:	Mandatory.
Ref:	Sections 12.2.1.1, Figure 5 and 17.1.1.3 of [IETF RFC 3261].

Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response sends an ACK request with the same Call-ID and From headers as in the original INVITE request.
TPId:	SIP_CC_OE_CE_V_021
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 13.2.2.4, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with no Record-Route header set sends an ACK request with the Request-URI set to the Contact URI included in the received final response and with no Route header set.
TPId:	SIP_CC_OE_CE_V_022
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 13.2.2.4, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with a Record-Route header set to a list in which the last element contains Ir parameter, sends an ACK request with the Request-URI set to the Contact URI and a Route header set to the list in a reverse order of the Record-Route included in the received final response.
TPId:	SIP_CC_OE_CE_V_023
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 13.2.2.4, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with a Record-Route header set to a list in which the last element does not contain lr parameter, sends an ACK request with the Request-URI set to this element and a Route header set to the remainder list in a reverse order of the received Record-Route appended with the received Contact URI.
TPId:	SIP_CC_OE_CE_V_024
Status:	Mandatory.
Ref:	Sections 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Multiple Choices (300 Multiple Choices) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in the Multiple Choices (300 Multiple Choices) response.
TPId:	SIP_CC_OE_CE_V_025
Status:	Mandatory.
Ref:	Sections 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261]
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Multiple Choices (300 Multiple Choices) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in the Multiple Choices (300 Multiple Choices) response.

TPId:	SIP_CC_OE_CE_V_026
Status:	Mandatory.
Ref:	Sections 13.2.2.2, Figure 5 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Multiple Choices (300 Multiple Choices) response sends an ACK request with a single Via header equal to the top Via header sent in the original INVITE request.
TPId:	SIP_CC_OE_CE_V_027
Status:	Mandatory.
Ref:	Sections 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Moved Permanently (301 Moved Permanently) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in the Moved Permanently (301 Moved Permanently) response.
TPId:	SIP_CC_OE_CE_V_028
Status:	Mandatory.
Ref:	Sections 12.2.1.1, 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Moved Temporarily (302 Moved Temporarily) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in the Moved Temporarily (302 Moved Temporarily) response.
TPId:	SIP_CC_OE_CE_V_029
Status:	PICS: A.16/1.3.
Ref:	Sections 8.1.3.4, 21.3.4, 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Use Proxy (305 Use Proxy) response sends an INVITE request to the proxy given by the Contact header.
TPId:	SIP_CC_OE_CE_V_030
Status:	PICS: A.16/1.3.
Ref:	Section 8.1.3.4, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Moved Permanently (301 Moved Permanently) response sends a new INVITE request with a Request-URI set with one of URI given in the Contact header of the redirection response.
TPId:	SIP_CC_OE_CE_V_031
Status:	PICS: A.16/1.3.
Ref:	Section 8.1.3.4, Figure 5 of [IETF RFC 3261].

Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Moved Permanently (301 Moved Permanently) response sends a new INVITE request with a new branch ID in the top Via header.
TPId:	SIP_CC_OE_CE_V_032
Status:	Mandatory.
Ref:	Sections 13.2.2.2, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Not Found (404 Not Found) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_033
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a Not Found (404 Not Found) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_034
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Gone (410 Gone) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_035
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Temporarily Unavailable (480 Temporarily Unavailable) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_036
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Busy Here (486 Busy Here) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_037
Status:	Mandatory.

Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Server Internal Error (500 Server Internal Error) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_038
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Busy Everywhere (600 Busy Everywhere) and a Server Internal Error (500 Server Internal Error) responses with different branch parameter value on the top Via header sends only one ACK request.
TPId:	SIP_CC_OE_CE_V_039
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of a Decline (603 Decline) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.
TPId:	SIP_CC_OE_CE_V_040
Status:	Mandatory.
Ref:	Sections 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already received a non 2XX final response to its INVITE request, on receipt of a Decline (603 Decline) response, with the same Via branch parameter and CSeq header method as in the INVITE request, sends an ACK message.
TPId:	SIP_CC_OE_CE_V_041
Status:	Mandatory.
Ref:	Sections 17, 13.2.2.4, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already received a 2XX final response to its INVITE request, on receipt of a Success (200 OK) response, with a different Record-Route as in previous response, but with the same Via branch parameter and CSeq header method as in the INVITE request, sends an ACK request with a Route header set according to this new Record-Route.
TPId:	SIP_CC_OE_CE_V_042
Status:	Mandatory.
Ref:	Sections 8.1.3.2, 13.2.2.3, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Calling state, on receipt of an Unknown (699 Unknown) response sends an ACK request with the same Call-ID, From headers and Request-URI as in the original INVITE request and the same Tag in the To header as in this response.

TPId:	SIP_CC_OE_CE_V_043
Status:	PICS: A.16/1.3.
Ref:	Sections 21.3.3, 12.2.1, 13.2.2.4, Figure 5, 17.1.1.2 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an INVITE to the location get from the redirect server, on receipt of a Success (200 OK) response sends an ACK request.
TPId:	SIP_CC_OE_CE_V_044
Status:	Mandatory.
Ref:	Section 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while is establishing a call, sends a unique session description either in the INVITE request or in the ACK request to answer the initial offers given then in the final 2XX response.
TPId:	SIP_CC_OE_CE_V_045
Status:	PICS: A.22/2.13.
Ref:	Sections 20.14 and 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while is establishing a call, sends a Content-Length header set to the size of the body in the message that contains the session description.
TPId:	SIP_CC_OE_CE_V_046
Status:	Mandatory.
Ref:	Sections 20.15 and 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while is establishing a call, sends a Content-Type header in the message that contains the session description.
TPId:	SIP_CC_OE_CE_V_047
Status:	Mandatory.
Ref:	Sections 7.4 and 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while is establishing a call, sends a Content-Encoding header only in the message that contains the session description.
TPId:	SIP_CC_OE_CE_V_048
Status:	Mandatory.
Ref:	Section 13.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while is establishing a call on receipt of in 2XX a not acceptable session description, sends an ACK request immediately followed by a BYE request.
TPId:	SIP_CC_OE_CE_V_049
Status:	Mandatory.
Ref:	Sections 20.14 and 13.2.1 of [IETF RFC 3261].
Purpose:	If a reliable transport (TCP) is used, ensure that the IUT while is establishing a call, sends a Content-Length header set to the size of the body in the message that contains the session description.

TPId:	SIP_CC_OE_CE_V_050
Status:	PICS: A.31/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an INVITE request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its INVITE request with an Authorization header and with an incremented Cseq value.
TPId:	SIP_CC_OE_CE_V_051
Status:	PICS: A.31/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an INVITE request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its INVITE request with an Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
TPId:	SIP_CC_OE_CE_V_052
Status:	PICS: A.31/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an INVITE request, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its INVITE request with a Proxy-Authorization header and with an incremented Cseq value.
TPId:	SIP_CC_OE_CE_V_053
Status:	PICS: A.31/1.
Ref:	Sections 8.1.3.5 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an INVITE request, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its INVITE request with a Proxy-Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
6.3.1.1.2 Timers	
TPId:	SIP_CC_OE_CE_TI_001
Status:	Mandatory.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state repeats its INVITE request on the timeout condition of timer A set with a value of T1.
TPId:	SIP_CC_OE_CE_TI_002
Status:	Recommended.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].

Purpose:	If a reliable transport (TCP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state does not repeat its INVITE request on the timeout condition of timer A set with a value of T1.
TPId:	SIP_CC_OE_CE_TI_003
Status:	Mandatory.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state having already repeated its INVITE wait for a timer A set with a value of 2*T1 before sending it again.
TPId:	SIP_CC_OE_CE_TI_004
Status:	Mandatory.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state retransmits its INVITE request with intervals that double after each transmission.
TPId:	SIP_CC_OE_CE_TI_005
Status:	Mandatory.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, when timer B set to a value of 64*T1 expires, does not send an ACK.
TPId:	SIP_CC_OE_CE_TI_006
Status:	Recommended.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, 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.
TPId:	SIP_CC_OE_CE_TI_007
Status:	Recommended.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Proceeding state, does not repeat its INVITE request.
TPId:	SIP_CC_OE_CE_TI_008
Status:	PICS: A.38/6.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE client transaction is in the Completed state, on receipt of final responses that matches the transaction, still answer with an ACK request until timer D set to at least 32 second expires.
TPId:	SIP_CC_OE_CE_TI_009
Status:	PICS: A.38/6.
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].

Purpose:	If tra m	a reliable transport is used, ensure that the IUT, when an INVITE client ansaction is in the Completed state, on receipt of a final response that natches the transaction, does not repeats its ACK request.
TPId:	SI	IP_CC_OE_CE_TI_010
Status:	PI	ICS: A.38/6.
Ref:	Se	ection 17.1.1.1 and Annex A of [IETF RFC 3261].
Purpose:	If tra di tin	an unreliable transport is used, ensure that the IUT, when an INVITE client ansaction is in the Completed state, on receipt of new final responses with ifferent Via branch parameter value, does not repeat its ACK request until mer D set to at least 32 second expires.
TPId:	SI	IP_CC_OE_CE_TI_011
Status:	Μ	landatory.
Ref:	Se	ection 13.2.2.4 and Annex A of [IETF RFC 3261].
Purpose:	Ei Te se	nsure that the IUT, when an INVITE client transaction has been in the erminated state, on receipt of a retransmitted Success (200 OK) responses ends an ACK request until 64*T1 duration expires.
TPId:	SI	IP_CC_OE_CE_TI_012
Status:	М	landatory.
Ref:	Se	ection 13.2.2.4 and Annex A of [IETF RFC 3261].
Purpose:	EI Te Su	nsure that the IUT, when an INVITE client transaction has been in the erminated state, after 64*T1 duration expires, on receipt of a retransmitted uccess (200 OK) responses does not send an ACK request.
6.3.1.2	Call release	
6.3.1.2.1	Valid behavi	iour

TPId:	SIP_CC_OE_CR_V_001
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, to release it sends a BYE request with a To header set to the same value as in the last received final response.
TPId:	SIP_CC_OE_CR_V_002
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established with a final response in which the TAG in the To header was omitted, to release it sends a BYE request with an identical To header without TAG value.
TPId:	SIP_CC_OE_CR_V_003
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, once a dialog has been established, to release it sends a BYE request with the same Call-ID, From headers as in the original INVITE message.
TPId:	SIP_CC_OE_CR_V_004
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, to release it sends a BYE request with an incremented of one CSeq value, a method field in the CSeq header set to "BYE".
TPId:	SIP_CC_OE_CR_V_005
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established with a Success (200 OK) response including no Record-Route header set, to release it sends a BYE request with the Request-URI set to the Contact URI included in the received final response and with no Route header set.
TPId:	SIP_CC_OE_CR_V_006
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established with a Success (200 OK) response including a Record-Route header set to a list in which the last element contains lr parameter, to release the call, sends a BYE request with the Request-URI set to the Contact URI and a Route header set to the list in a reverse order of the Record-Route included in the received final response.
TPId:	SIP_CC_OE_CR_V_007
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established with a Success (200 OK) response including a Record-Route header set to a list in which the last element does not contain lr parameter, to release the call, sends an BYE request with the Request-URI set to this element and a Route header set to the remainder list in a reverse order of the received Record-Route appended with the received Contact URI.
TPId:	SIP_CC_OE_CR_V_008
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, having sent a BYE request, on receipt of a Success (200 OK) response considers the session and the dialog terminated.
TPId:	SIP_CC_OE_CR_V_009
Status:	Mandatory.
Ref:	Sections 12.2.1.1 and 15.1.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, once a dialog has been established, having sent a BYE request, on receipt of a Call Leg/Transaction Does Not Exist (481 Call Leg/Transaction Does Not Exist) considers the session and the dialog terminated.
TPId:	SIP_CC_OE_CR_V_010
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261]
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, to give up the call, sends a CANCEL request.
TPId:	SIP_CC_OE_CR_V_011
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, to give up the call, sends a CANCEL request with the same Request-URI, Call-ID, From, To headers as in the original INVITE message.
TPId:	SIP_CC_OE_CR_V_012
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, sends a CANCEL request with the same numeric part of CSeq as in the original INVITE message and with a method field in the CSeq header set to "CANCEL".
TPId:	SIP_CC_OE_CR_V_013
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, sends a CANCEL request with a single Via header value matching the top Via value of the Via header of the original INVITE message.
TPId:	SIP_CC_OE_CR_V_014
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, to give up the call, sends a CANCEL request without Require or Proxy-Require header.
TPId:	SIP_CC_OE_CR_V_015
Status:	Mandatory.
Ref:	Sections 15 and 9.1, Figure 5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received a Trying (100 Trying) response to its INVITE request, to give up the call having sent a CANCEL request, on receipt of a 2XX response to the original INVITE sends an ACK request.

6.3.1.2.2 Invalid behaviour

TPId:	SIP_CC_OE_CR_I_001
Status:	Mandatory.
Ref:	Sections 9 and 16.10 [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a CANCEL request followed by a BYE request, sends a Success (200 OK) response to the BYE request.
6.3.1.2.3 Timers	
TPId:	SIP_CC_OE_CR_TI_001
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent a BYE request on an established dialog, repeats its request after timer E set to T1 value expires.
TPId:	SIP_CC_OE_CR_TI_002
Status:	Mandatory.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent twice times a BYE request on an established dialog, repeats its request after timer E set to the MIN(2*T1,T2) value expires.
TPId:	SIP_CC_OE_CR_TI_003
Status:	Mandatory.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent three times a BYE request on an established dialog, repeats its request after timer E set to the MIN(4*T1,T2) value expires.
TPId:	SIP_CC_OE_CR_TI_004
Status:	PICS: A.38/8.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT does not repeat a BYE request on an established dialog, after timer F set to 64*T1 expires.
TPId:	SIP_CC_OE_CR_TI_005
Status:	Mandatory.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state, repeats its BYE request after timer E set to T1 value expires.
TPId:	SIP_CC_OE_CR_TI_006
Status:	Mandatory.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].

Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state and BYE request have been already repeated in this state, repeats its BYE request after timer E set to T2 value expires.
TPId:	SIP_CC_OE_CR_TI_007
Status:	PICS: A.38/8.
Ref:	Section 17.1.3 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state, does not repeat a BYE request on an established dialog, after timer F set to 64*T1 expires.
TPId:	SIP_CC_OE_CR_TI_008
Status:	PICS: A.38/8.
Ref:	Section 17.1.3, section 9.1 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Trying state, considers the transaction terminated after timer F set to 64*T1 duration expires without receiving any final response.

6.3.1.3 Session modification

6.3.1.3.1 Valid behaviour

TPId:	SIP_CC_OE_SM_V_001
Status:	Mandatory.
Ref:	Section 14.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent an INVITE, on receipt of a re-INVITE on this dialog, sends a Request Pending (491 Request Pending) response.
TPId:	SIP_CC_OE_SM_V_002
Status:	Mandatory.
Ref:	Section 14.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when an INVITE client transaction is in the Proceeding state, on receipt of a re-INVITE on this dialog, sends a Request Pending (491 Request Pending) response.

6.3.2 Terminating endpoint

Status: PICS: A.1/1.

6.3.2.1 Call establishment

Group selection:	IUT can behave as a User Agent server to establish a call.
Status:	PICS: A.16/1.2.

6.3.2.1.1 Valid behaviour

TPId:	SIP_CC_TE_CE_V_001
Status:	Mandatory.
Ref:	Sections 8, 8.2 and 13.3.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request, sends a Success (200 OK) or a provisional (101-199) response.
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TPId:	SIP_CC_TE_CE_V_002
Status:	PICS: A.18/4.14 Status/Sending.
Ref:	Section 8.2.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Request-URI set with a scheme that it does not support, sends an Unsupported URI scheme (416 Unsupported URI scheme) response.
TPId:	SIP_CC_TE_CE_V_003
Status:	PICS: A.18/4.5 Status/Sending.
Ref:	Section 8.2.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Request-URI set with an address that it does not accept sends a Not Found (404 Not Found) response.
TPId:	SIP_CC_TE_CE_V_004
Status:	Mandatory.
Ref:	Section 8.2.6.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Timestamp header, when it answers with a provisional response Trying (100 Trying), set a Timestamp header with an increased value of the received Timestamp in its response.
TPId:	SIP_CC_TE_CE_V_005
TPId: Status:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending.
TPId: Status: Ref:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261].
TPId: Status: Ref: Purpose:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response.
TPId: Status: Ref: Purpose: TPId:	<pre>SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006</pre>
TPId: Status: Ref: Purpose: TPId: Status:	<pre>SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory.</pre>
TPId: Status: Ref: Purpose: TPId: Status: Ref:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an initial offer session description in its message body, includes the answer in its first 2xx response a session description.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an initial offer session description in its message body, includes the answer in its first 2xx response a session description. SIP_CC_TE_CE_V_008
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_TE_CE_V_005 PICS: A.18/4.23 Status/Sending. Section 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an Expires header set to 0, sends a Request Terminated (487 Request Terminated) response. SIP_CC_TE_CE_V_006 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including no message body, includes in its first 2xx response an initial offer session description. SIP_CC_TE_CE_V_007 Mandatory. Sections 13.2.1 and 13.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including an initial offer session description in its message body, includes the answer in its first 2xx response a session description. SIP_CC_TE_CE_V_008 Mandatory.

Purpose:	Ensure that the IUT on receipt of an INVITE request including a message body with a Content-Disposition header not set to session value, includes in its first 2xx response an initial offer session description.
TPId:	SIP_CC_TE_CE_V_009
Status:	Mandatory.
Ref:	Sections 13.2.1, 13.3.1 and 20.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Content-Language header value that it cannot understood and a Content-Disposition header including a handling set to "optional", includes in its first 2xx response an initial offer session description.
TPId:	SIP_CC_TE_CE_V_010
Status:	PICS: A.18/4.13 Status/Sending.
Ref:	Sections 8.2.3, 13.2.1, 13.3.1 and 20.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Content-Language header value that it cannot understood, a Content-Disposition header including a handling empty sends an Unsupported Media Type (415 Unsupported Media Type) response with an Accept header that lists the types of all bodies it understands.
TPId:	SIP_CC_TE_CE_V_011
Status:	Mandatory.
Ref:	Sections 8.2.3, 21.4.13, 13.2.1, 13.3.1 and 20.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Content-Language header value that it cannot understood, a Content-Disposition with a handling set to "required" and a disposition-types set to session, sends an Unsupported Media Type (415 Unsupported Media Type) response with an Accept header that lists the types of all bodies it understands.
TPId:	SIP_CC_TE_CE_V_012
Status:	Mandatory.
Ref:	Sections 8.2.3, 21.4.13, 13.2.1, 13.3.1 and 20.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Content-Encoding header set to content-coding values that it does not support, sends an Unsupported Media Type (415 Unsupported Media Type) response with an Accept-Encoding header that list the types of coding that it understands.
TPId:	SIP_CC_TE_CE_V_013
Status:	PICS: A.18/4.24 Status/Sending.
Ref:	Sections 13.3.1.3, and 21.4.26 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a session description that it can understand but it cannot accept, a Content-Disposition with a handling set to "required" and a disposition-types set to session, sends a Not Acceptable Here (488 Not Acceptable Here) response including a Warning header.

TPId:	SIP_CC_TE_CE_V_014
Status:	Mandatory.
Ref:	Section 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request, sends a Success (200 OK) or a provisional (101-199) response including the headers From, Call-ID, CSeq and Via headers copy from the INVITE request.
TPId:	SIP_CC_TE_CE_V_015
Status:	Mandatory.
Ref:	Sections 8.2.6.2, 12.2.2 and 13.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with no TAG set on the To header, sends a Success (200 OK) or a provisional (101-199) response including the same URI and an additional TAG for the To header.
TPId:	SIP_CC_TE_CE_V_016
Status:	Recommended.
Ref:	Section 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a TAG set on the To header, either:
	• sends a Success (200 OK) or a provisional (101-199) response including the same URI and the same TAG for the To header (recommended for robustness),
	• or reject the INVITE request with a Call/Transaction does not exist (481 Call/Transaction does not exist).
TPId:	SIP_CC_TE_CE_V_017
Status:	Mandatory.
Ref:	Section 12.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request, sends a Success (200 OK) or a provisional (101-199) response including a single Contact header.
TPId:	SIP_CC_TE_CE_V_018
Status:	Mandatory.
Ref:	Section 12.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Record-Route header, sends a Success (200 OK) or a provisional (101-199) response including a Record-Route header copy from the INVITE request, in the same order.
TPId:	SIP_CC_TE_CE_V_019
Status:	Mandatory.
Ref:	Section 12.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Record-Route header with parameters that it does not understand, sends a Success (200 OK) or a provisional (101-199) response including a

	Record-Route header copy from the INVITE request, with the unknown parameters.
TPId:	SIP_CC_TE_CE_V_020
Status:	Mandatory.
Ref:	Section 12.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including From header without tag, sends a Success (200 OK) or a provisional (101-199) response including a From header without tag.
TPId:	SIP_CC_TE_CE_V_021
Status:	Recommended.
Ref:	Section 13.3.1.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having received an INVITE request, sends a Success (200 OK) including an Allow and a Supported headers.
TPId:	SIP_CC_TE_CE_V_022
Status:	Mandatory.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.
TPId:	SIP_CC_TE_CE_V_023
Status:	Mandatory.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via identical as in the first INVITE request, repeats its last response.
TPId:	SIP_CC_TE_CE_V_024
Status:	Mandatory.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a Via header set with a branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via identical as in the first INVITE request, repeats its last response.
TPId:	SIP_CC_TE_CE_V_025
Status:	Recommended.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an INVITE request, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.

TPId:	SIP_CC_TE_CE_V_026
Status:	Recommended.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an INVITE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via identical as in the first INVITE request, repeats its last response.
TPId:	SIP_CC_TE_CE_V_027
Status:	Recommended.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an INVITE request, including a Via header set with a branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via identical as in the first INVITE request, repeats its last response.
TPId:	SIP_CC_TE_CE_V_028
Status:	PICS: A.18/4.19 Status/Sending.
Ref:	Sections 8.2.2.2, 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a Via header set with a different branch parameter starting with the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the first INVITE request, sends a Loop Detected (482 Loop Detected) response.
TPId:	SIP_CC_TE_CE_V_029
Status:	PICS: A.18/4.19 Status/Sending.
Ref:	Sections 8.2.2.2, 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a Via header set to an identical branch parameter starting with the magic cookie "z9hG4bK" and a different sent-by value, but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the first INVITE request, sends a Loop Detected (482 Loop Detected) response.
TPId:	SIP_CC_TE_CE_V_030
Status:	PICS: A.18/4.19 Status/Sending.
Ref:	Sections 8.2.2.2, 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of an INVITE request, including a top Via header set to a different value but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the first INVITE request, sends a Loop Detected (482 Loop Detected) response.
TPId:	SIP_CC_TE_CE_V_031
Status:	Mandatory.
Ref:	Section 8.2.2.3 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an INVITE request with a Require header set to an option value that the IUT does not support, sends a Bad Extension (420 Bad Extension) response including those options in the Unsupported header.
TPId:	SIP_CC_TE_CE_V_032
Status:	Mandatory.
Ref:	Sections 17.2.1 and 13.3.1.4, Figure 7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, after sending a 4XX response, enters in the Completed state.
TPId:	SIP_CC_TE_CE_V_033
Status:	Mandatory.
Ref:	Sections 17.2.1 and 13.3.1.4, Figure 7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an ACK request, enters in the Confirmed transaction state.
TPId:	SIP_CC_TE_CE_V_034
Status:	PICS: A.31/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request not including an Authorization header field, sends an Unauthorized (401 Unauthorized) response, containing a WWW-Authenticate header.
TPId:	SIP_CC_TE_CE_V_035
Status:	PICS: A.31/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request not including an Authorization header field, sends an Unauthorized (401 Unauthorized) response, containing a WWW-Authenticate header including proper value for realm and nonce HTTP parameters.
TPId:	SIP_CC_TE_CE_V_036
Status:	PICS: A.31/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an Unauthorized (401 Unauthorized) response to an INVITE request, on receipt of an INVITE request including a valid Authorization header field, sends a Success (200 OK) response.
6.3.2.1.2 Invalid be	haviour
TPId:	SIP_CC_TE_CE_I_001
Status:	Mandatory.
Ref:	Sections 17.2.3 and 8.2.2.3, Figure 7 of [IETF RFC 3261].

Purpose: Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an ACK request including a Proxy-Require header set with an option-tag that it does not support, enters in the Confirmed transaction state.

TPId:	SIP_CC_TE_CE_I_002
Status:	Mandatory.
Ref:	Sections 17.2.3 and 8.2.2.3, Figure 7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Completed state, on receipt of an ACK request including a Require header set with an option-tag that it does not support, enters in the Confirmed transaction state.
6.3.2.1.3 Timers	
TPId:	SIP_CC_TE_CE_TI_001
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state repeats its response on the timeout condition of timer G set with a value of T1.
TPId:	SIP_CC_TE_CE_TI_002
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If a reliable transport (TCP) is used, ensure that the IUT, when an INVITE server transaction is in the Completed state does not repeat its response on the timeout condition of timer G set with a value of T1.
TPId:	SIP_CC_TE_CE_TI_003
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and having already sent twice times its response, repeats it after timer G set MIN(2*T1,T2) value expires.
TPId:	SIP_CC_TE_CE_TI_004
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and having already sent three times its response, repeats it after timer G set the $MIN(4*T1,T2)$ value expires.
TPId:	SIP_CC_TE_CE_TI_005
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, 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.
TPId:	SIP_CC_TE_CE_TI_006
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].

Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and, does not repeats its response after timer H set to 64*T1 value expires.
TPId:	SIP_CC_TE_CE_TI_007
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Confirmed state, enters in the Terminated state after timer I set to T4 value expires.
TPId:	SIP_CC_TE_CE_TI_008
Status:	Mandatory.
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].
Purpose:	If a reliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Confirmed state, enters immediately in the Terminated state.
TPId:	SIP_CC_TE_CE_TI_009
Status:	Mandatory.
Ref:	Section 13.3.1.4 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when it has answered to an INVITE request with 2XX response, repeats it after T1 duration expires without receiving an ACK request.
TPId:	SIP_CC_TE_CE_TI_010
Status:	Mandatory.
Ref:	Section 13.3.1.4 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when it has already answered twice times to an INVITE request with a 2XX response, repeats it after 2*T1 duration expires without receiving an ACK request.
TPId:	SIP_CC_TE_CE_TI_011
Status:	Mandatory.
Ref:	Section 13.3.1.4 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, does not repeat its 2XX response to an INVITE request after 64*T1 duration expires without receiving an ACK request.
TPId:	SIP_CC_TE_CE_TI_012
Status:	Recommended.
Ref:	Section 13.3.1.4 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when it has receive no ACK to its 2XX responses during a duration of 64*T1 seconds, sends a BYE request.

6.3.2.2 Call release

6.3.2.2.1 Valid beh	aviour
TPId:	SIP_CC_TE_CR_V_001
Status:	Mandatory.
Ref:	Section 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while a session has been established, on receipt of a BYE request sends a Success (200 OK) response.
TPId:	SIP_CC_TE_CR_V_002
Status:	Mandatory.
Ref:	Sections 12 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while the dialog is in an early stage, on receipt of a BYE request sends a response.
TPId:	SIP_CC_TE_CR_V_003
Status:	Mandatory.
Ref:	Sections 12 and 15 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while the dialog is in a confirmed stage, on receipt of a BYE request sends a Success (200 OK) response.
TPId:	SIP_CC_TE_CR_V_004
Status:	Mandatory.
Ref:	Sections 8.2.2 and 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established, on receipt of a BYE request including a header that it does not understand sends a Success (200 OK) response.
TPId:	SIP_CC_TE_CR_V_005
Status:	Mandatory.
Ref:	Sections 8.2.2 and 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including a Require header set with an option-tag that it does not support, sends a Bad Extension (420 Bad Extension) response including an Unsupported set with this option-tag.
TPId:	SIP_CC_TE_CR_V_006
Status:	Mandatory.
Ref:	Sections 8.2.6.2 and 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request, sends a Success (200 OK) response with From, Call-ID, CSeq and Via headers set to the same value as in the request.
TPId:	SIP_CC_TE_CR_V_007
Status:	PICS: A.20/4.11 Status/Sending.
Ref:	Section 15.1.2 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, 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).
TPId:	SIP_CC_TE_CR_V_008
Status:	PICS: A.20/4.11 Status/Sending.
Ref:	Section 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, while a dialog has been established, on receipt of a BYE request without TAG in the To header, sends a Call/Transaction does not exist (481 Call/Transaction does not exist).
TPId:	SIP_CC_TE_CR_V_009
Status:	Recommended.
Ref:	Section 12.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including a CSeq header set with a more than one higher value as in the previous request, sends a Success (200 OK) response with the same CSeq value.
TPId:	SIP_CC_TE_CR_V_010
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established, to release it sends a BYE request with a To header set to the same value as in the From header of the previous received request.
TPId:	SIP_CC_TE_CR_V_011
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established, to release it sends a BYE request with a From header set to the same value as in the To header of the last sent response.
TPId:	SIP_CC_TE_CR_V_012
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established with an INVITE request including no Record-Route header set, to release it sends a BYE request with the Request-URI set to the Contact URI included in the original INVITE request and with no Route header set.
TPId:	SIP_CC_TE_CR_V_013
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established with an INVITE request including a Record-Route header set to a list in which the last element does not contain a lr parameter, to release the call, sends a BYE request with

	the Request-URI set to the Contact URI and a Route header set to the list in a reverse order of the Record-Route included in the original INVITE request.
TPId:	SIP_CC_TE_CR_V_014
Status:	Mandatory.
Ref:	Section 12.2.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT once a dialog has been established with an INVITE request including a Record-Route header set to a list in which the last element contains a lr parameter, to release the call, sends a BYE request with the Request-URI set to this element and a Route header set to the remainder list in a reverse order of the received Record-Route appended with the received Contact URI.
TPId:	SIP_CC_TE_CR_V_015
Status:	Mandatory.
Ref:	Section 9.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL, sends a Success (200 Success) response.
TPId:	SIP_CC_TE_CR_V_016
Status:	PICS: A.18/4.23 Status/Sending.
Ref:	Section 9.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL answers to the original INVITE, request with a Request Terminated (487 Request Terminated) response.
TPId:	SIP_CC_TE_CR_V_017
Status:	PICS: A.21/4.11 Status/Sending.
Ref:	Section 9.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request including a Via header set with a different branch parameter starting with the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the original INVITE request, sends a Call Leg/Transaction Does Not Exist (481 Call Leg/Transaction Does Not Exist) response.
TPId:	SIP_CC_TE_CR_V_018
Status:	PICS: A.21/4.11 Status/Sending.
Ref:	Sections 9.2 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request including a Via header set to an identical branch parameter starting with the magic cookie "z9hG4bK" and a different sent-by value, but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the original INVITE request, sends a Call Leg/Transaction Does Not Exist (481 Call Leg/Transaction Does Not Exist) response.
TPId:	SIP_CC_TE_CR_V_019
Status:	PICS: A.21/4.11 Status/Sending.

Ref:	Sections 9.2 and 17.2.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request, including a top Via header set to a different value but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the original INVITE request, sends a Call Leg/Transaction Does Not Exist (481 Call Leg/Transaction Does Not Exist) response.
TPId:	SIP_CC_TE_CR_V_020
Status:	Mandatory.
Ref:	Sections 17.2.3, 17.2.2, 12.2.1.1 and 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having already answer to a BYE request, on receipt of a BYE request, before timer J fires, including a Via header set with the same branch parameter in the topmost list value, repeats its last response.
TPId:	SIP_CC_TE_CR_V_021
Status:	Mandatory.
Ref:	Sections 17.2.3, 17.2.2 and 15.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having already answer to a BYE request, on receipt of a BYE request, before timer J fires, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID and CSeq identical as in the first BYE request, repeats its last response.
TPId:	SIP_CC_TE_CR_V_022
Status:	Void.
6.3.2.2.2 Invalid be	chaviour
6.3.2.2.2 Invalid be TPId:	ehaviour SIP_CC_TE_CR_I_001
6.3.2.2.2 Invalid be TPId: Status:	ehaviour SIP_CC_TE_CR_I_001 Mandatory.
6.3.2.2.2 Invalid be TPId: Status: Ref:	ehaviour SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261].
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose:	Ehaviour SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response.
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId:	<pre>ehaviour SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002</pre>
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status:	<pre>ehaviour SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002 Mandatory.</pre>
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status: Ref:	SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002 Mandatory. Section 8.2.2.3 of [IETF RFC 3261].
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002 Mandatory. Section 8.2.2.3 of [IETF RFC 3261]. Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request including a Require header set with an option-tag that it does not support, sends a Success (200 OK) response.
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	 SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002 Mandatory. Section 8.2.2.3 of [IETF RFC 3261]. Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request including a Require header set with an option-tag that it does not support, sends a Success (200 OK) response. SIP_CC_TE_CR_I_003
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	Phaviour SIP_CC_TE_CR_I_001 Mandatory. Section 12.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of a BYE request with a CSeq number set to a lower value than in the preceding INVITE request, sends a 500 (Server Internal Error) response. SIP_CC_TE_CR_I_002 Mandatory. Section 8.2.2.3 of [IETF RFC 3261]. Ensure that the IUT when a server INVITE transaction is in the Proceeding state, on receipt of a CANCEL request including a Require header set with an option-tag that it does not support, sends a Success (200 OK) response. SIP_CC_TE_CR_I_003 Mandatory.
6.3.2.2.2 Invalid be TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref: Ref: Status: Ref:	Arrows Struct Content of Cont

TPId:	SIP_CC_TE_CR_I_004	
Status:	PICS: A.21/4.11 Status/Sending.	
Ref:	Sections 9.2 and 15.1.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT while no session has been initiated, on receipt of a CANCEL request, sends a Call/transaction Does Not Exist (481 Call/transaction Does Not Exist) response.	
TPId:	SIP_CC_TE_CR_I_005	
Status:	PICS: A.20/4.11 Status/Sending.	
Ref:	Section 15.1.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, while a session has been released, on receipt of a BYE request, sends a Call/transaction Does Not Exist (481 Call/transaction Does Not Exist) response.	
6.3.2.2.3 Timers		

TPId:	SIP_CC_TE_CR_TI_001
Status:	Mandatory.
Ref:	Section 17.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, 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.

6.3.2.3 Session modification

6	3	2	3	1	Valid behaviour
v	2	• 44 •		. 1	

TPId:	SIP_CC_TE_SM_V_001
Status:	Mandatory.
Ref:	Section 14 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while a session has been established, on receipt of a re-INVITE request with a higher CSeq and a new complete session description sends a Success (200 OK) response including the last received CSeq.
TPId:	SIP_CC_TE_SM_V_002
Status:	Mandatory.
Ref:	Section 14 of [IETF RFC 3261].
Purpose:	Ensure that the IUT while a session has been established, on receipt of a re-INVITE request with no session description sends a Success (200 OK) response.
TPId:	SIP_CC_TE_SM_V_003
Status:	Recommended.
Ref:	Section 14 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a Success (200 OK) response to a re-INVITE request and receiving no ACK message, sends a BYE request for the dialog.

6.3.2.3.2 Invalid behaviour

TPId:	SIP_CC_TE_SM_I_001		
Status:	Mandatory.		
Ref:	Section 14.2 (paragraph 2) of [IETF RFC 3261].		
Purpose:	Ensure that the IUT when an INVITE server transaction is in the Proceeding state (no final response sent), on receipt of a re-INVITE with a higher CSeq values, sends a Server Internal Error (500 Server Internal Error) response including a Retry-After header set to a randomly chosen value between 0 and 10 seconds.		
6.3.3	Proxy		
Group selection:	IUT is a Proxy.		
Status:	PICS: A.1/3.		
6.3.3.1 Message p	processing		
6.3.3.1.1 Request			
6.3.3.1.1.1 Valie	d behaviour		
TPId:	SIP_CC_PR_MP_RQ_V_001		
Status:	PICS: A.79/4.14 Status/Sending.		
Ref:	Section 16.3 (item 2) of [IETF RFC 3261].		
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.		
	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with a Request-URI with a scheme that it does not understand, sends a Unsupported URI Scheme [416 Unsupported URI Scheme] request failure response.		
TPId:	SIP_CC_PR_MP_RQ_V_002		
Status:	Mandatory.		
Ref:	Section 16.3 (item 3) of [IETF RFC 3261].		
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.		
TPId:	SIP_CC_PR_MP_RQ_V_003		
Status:	Mandatory.		
Ref:	Section 16.3 (item 5) of [IETF RFC 3261].		
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Proxy-Require header set to a value that it does not understand, sends a Bad Extension (420 Bad Extension) request failure response including a list of the options that it does not support in the Unsupported header.		
TPId:	SIP_CC_PR_MP_RQ_V_004		
Status:	Mandatory.		

Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with the Request-URI with a maddr parameter indicating a value the proxy is responsible for and the request was received using the port and transport indicated, removes the maddr and any non-default port or transport parameter from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_005
Status:	Mandatory.
Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_006
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with the Request-URI with a maddr parameter, indicating a value the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_007
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with the Request-URI, indicating a domain the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_008
Status:	PICS: A.79/4.22 Status/Sending.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE, which Request-URI does not contain sufficient information to determine the target set, sends back an Ambiguous (485 Ambiguous) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_009
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with the Request-URI, indicating a resource, which does not exist at this proxy, sends back a Not found (404 Not found) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_010
Status:	Void.
TPId:	SIP_CC_PR_MP_RQ_V_011
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an INVITE request including a Max-Forwards header set to 5, forwards it after having decreasing this counter of one.
TPId:	SIP_CC_PR_MP_RQ_V_012
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Max-Forwards header set to 1, forwards it after decreasing the Max-Forwards by one (i.e., setting it to 0).
TPId:	SIP_CC_PR_MP_RQ_V_013
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request, without a Max-Forwards header, forwards it after having added a Max-Forwards header.
TPId:	SIP_CC_PR_MP_RQ_V_014
Status:	Recommended.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request, without a Max-Forwards header, forwards it after having added a Max-Forwards header with the value set to 70.
TPId:	SIP_CC_PR_MP_RQ_V_015
Status:	Mandatory.
Ref:	Section 16.6 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Route header, and the first URI of this Route does not contain an lr parameter, put the Request-URI into the last position of the Route header, and put the first value of the Route header into the Request-URI, and then forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_016
Status:	Mandatory.
Ref:	Section 16.6 (item 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with a Route header, and the first URI of this Route containing an lr parameter, forwards the message to the address in the first element of Route header.
TPId:	SIP_CC_PR_MP_RQ_V_017
Status:	Mandatory.
Ref:	Section 16.6 (item 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request without a Route header, forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_018
Status:	Mandatory.

Ref:	Sections 16.6 (item 8) and 8.1.1.7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request forwards the message 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.
TPId:	SIP_CC_PR_MP_RQ_V_019
Status:	Mandatory.
Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request with the Request-URI with a maddr parameter indicating a value the proxy is responsible for and the request was received using the port and transport indicated, removes the maddr and any non-default port or transport parameter from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_020
Status:	Mandatory.
Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_021
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request with the Request-URI with a maddr parameter, indicating a value the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_022
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request with the Request-URI, indicating a domain the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_023
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request including a Max-Forwards header set to 5, forwards after having decreasing this counter of one.
TPId:	SIP_CC_PR_MP_RQ_V_024
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an ACK request including a Max-Forwards header set to 1, forwards it after decreasing the Max-Forwards by one (i.e., setting it to 0).
TPId:	SIP_CC_PR_MP_RQ_V_025
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request without a Max-Forwards header, forwards it after having added a Max-Forwards header.
TPId:	SIP_CC_PR_MP_RQ_V_026
Status:	Recommended.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request without a Max-Forwards header, forwards it after having added a Max-Forwards header with the value set to 70.
TPId:	SIP_CC_PR_MP_RQ_V_027
Status:	Mandatory.
Ref:	Section 16.6 (item 6 and 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request with a Route header, and the first URI of this Route does not contain a lr parameter, put the Request-URI into the last position of the Route header, and put the first value of the Route header into the Request-URI, and then forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_028
Status:	Void.
NOTE – This TP has th	e same behaviour as SIP_CC_PR_MP_RQ_V_027.
TPId:	SIP_CC_PR_MP_RQ_V_029
Status:	Mandatory.
Ref:	Section 16.6 (item 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request without a Route header, forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_030
Status:	Mandatory.
Ref:	Sections 16.6 (item 8) and 8.1.1.7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request forwards the message 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.
TPId:	SIP_CC_PR_MP_RQ_V_031
Status:	PICS: A.82/4.12 Status/Sending.
Ref:	Sections 16.3 (item 2) and 16.10 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with a Request-URI with a scheme that it does not understand, sends a Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_032
Status:	Mandatory.
Ref:	Sections 16.3 (item 3) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_033
Status:	Mandatory.
Ref:	Sections 16.3 (item 5) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context including a Proxy-Require header set to a value that it does not understand, sends a Bad Extension (420 Bad Extension) request failure response including a list of the options that it does not support in the Unsupported header.
TPId:	SIP_CC_PR_MP_RQ_V_034
Status:	Mandatory.
Ref:	Sections 16.4 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with the Request-URI with a maddr parameter indicating a value the proxy is responsible for and the request was received using the port and transport indicated, removes the maddr and any non-default port or transport parameter from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_035
Status:	Mandatory.
Ref:	Sections 16.4 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_036
Status:	Mandatory.
Ref:	Sections 16.5 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with the Request-URI with a maddr parameter, indicating a value the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_037
Status:	Mandatory.

Ref:	Sections 16.5 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with the Request-URI, indicating a domain the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_038
Status:	PICS: A.82/4.19 Status/Sending.
Ref:	Sections 16.5 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context but does not sufficient information to determine the target set, sends back an Ambiguous (485 Ambiguous) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_039
Status:	Mandatory.
Ref:	Sections 16.5 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with the Request-URI, indicating a resource, which does not exist at this proxy, sends back a Not found (404 Not found) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_040
Status:	PICS: A.82/4.14 Status/Sending.
Ref:	Sections 16.5 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context but does not find any target to forward, sends back a Temporary Unavailable (480 Temporary Unavailable) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_041
Status:	Mandatory.
Ref:	Sections 16.6 (item 3) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context including a Max-Forwards header set to 5, forwards it after having decreasing this counter of one.
TPId:	SIP_CC_PR_MP_RQ_V_042
Status:	Mandatory.
Ref:	Sections 16.6 (item 3) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context including a Max-Forwards header set to 1, forwards it after having decreasing this counter of one.
TPId:	SIP_CC_PR_MP_RQ_V_043
Status:	Mandatory.
Ref:	Sections 16.6 (item 3) and 16.10 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context, without a Max-Forwards header, forwards it after having added a Max-Forwards header.
TPId:	SIP_CC_PR_MP_RQ_V_044
Status:	Recommended.
Ref:	Sections 16.6 (item 3) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context, without a Max-Forwards header, forwards it after having added a Max-Forwards header with the value set to 70.
TPId:	SIP_CC_PR_MP_RQ_V_045
Status:	Mandatory.
Ref:	Sections 16.6 (item 6 and 7) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with a Route header, and the first URI of this route does not contain a lr parameter, put the Request-URI into the last position of the Route header, and put the first value of the Route header into the Request-URI, and then forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_046
Status:	Mandatory.
Ref:	Sections 16.6 (item 7) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context with a Route header, and the first URI of that containing an lr parameter, forwards the message to the address in the first element of Route header.
TPId:	SIP_CC_PR_MP_RQ_V_047
Status:	Recommended.
Ref:	Sections 16.6 (item 7) and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context without a Route header, forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_048
Status:	Mandatory.
Ref:	Sections 16.6 (item 8), 8.1.1.7 and 16.10 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request that does not correspond to an existing context forwards the message 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.
TPId:	SIP_CC_PR_MP_RQ_V_049
Status:	PICS: A.81/4.14 Status/Sending.
Ref:	Section 16.3 (item 2) of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of a BYE request with a Request-URI with a scheme that it does not understand, sends an Unsupported URI Scheme (416 Unsupported URI Scheme) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_050
Status:	Mandatory.
Ref:	Section 16.3 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request including a Max-Forwards header set to 0, sends a Too many hops (483 Too many hops) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_051
Status:	Mandatory.
Ref:	Section 16.3 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request including a Proxy-Require header set to a value that it does not understand, sends a Bad Extension (420 Bad Extension) request failure response including a list of the options that it does not support in the Unsupported header.
TPId:	SIP_CC_PR_MP_RQ_V_052
Status:	Mandatory.
Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with the Request-URI with a maddr parameter indicating a value the proxy is responsible for and the request was received using the port and transport indicated, removes the maddr and any non-default port or transport parameter from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_053
Status:	Mandatory.
Ref:	Section 16.4 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request including a Route header with the first value indicates the IUT, removes that value from the request and forwards the message.
TPId:	SIP_CC_PR_MP_RQ_V_054
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with the Request-URI with a maddr parameter, indicating a value the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_055
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with the Request-URI, indicating a domain the proxy is not responsible for, forwards the message to the target indicated in the Request-URI.

TPId:	SIP_CC_PR_MP_RQ_V_056
Status:	PICS: A.81/4.22 Status/Sending.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request but does not contain sufficient information to determine the target set, sends back an Ambiguous (485 Ambiguous) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_057
Status:	Mandatory.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with the Request-URI, indicating a resource, which does not exist at this proxy, sends back a Not found (404 Not found) request failure response.
TPId:	SIP_CC_PR_MP_RQ_V_058
Status:	PICS: A.81/4.17 Status/Sending.
Ref:	Section 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request but does not find any target to forward, sends back a Temporary Unavailable (480 Temporary Unavailable) request failure response.
NOTE – Clarification r	equested on which failure response is expected: 404 or 480?
	If no clarification received, the TP will be removed (assuming same behaviour than V_057
TPId:	SIP_CC_PR_MP_RQ_V_059
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request including a Max-Forwards header set to 5, forwards it after having decreasing this counter of one.
TPId:	SIP_CC_PR_MP_RQ_V_060
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request including a Max-Forwards header set to 1, forwards it after decreasing the Max-Forwards by one (i.e., setting it to 0).
TPId:	SIP_CC_PR_MP_RQ_V_061
Status:	Mandatory.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request, without a Max-Forwards header, forwards it after having added a Max-Forwards header.
TPId:	SIP_CC_PR_MP_RQ_V_062
Status:	Recommended.
Ref:	Section 16.6 (item 3) of [IETF RFC 3261].

Purpose:	Ensure that the IUT 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.
TPId:	SIP_CC_PR_MP_RQ_V_063
Status:	Mandatory.
Ref:	Section 16.6 (item 6 and 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with a Route header, and the first URI of this route does not contain a lr parameter, put the Request-URI into the last position of the Route header, and put the first value of the Route header into the Request-URI, and then forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_064
Status:	Mandatory.
Ref:	Section 16.6 (item 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with a Route header, and the first URI of that containing an lr parameter, forwards the message to the address in the first element of Route header.
TPId:	SIP_CC_PR_MP_RQ_V_065
Status:	Mandatory.
Ref:	Section 16.6 (item 7) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request without a Route header, forwards the message to the address in the Request-URI.
TPId:	SIP_CC_PR_MP_RQ_V_066
Status:	Mandatory.
Ref:	Sections 16.6 (item 8) and 8.1.1.7 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request forwards the message 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.
TPId:	SIP_CC_PR_MP_RQ_V_067
Status:	PICS: A.77/1.4.
Ref:	Sections 16.6 (items 7 and 10) and 16.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request and the determined target set is containing two URIs forwards the message (forking) to both URIs.
6.3.3.1.1.2	Invalid behaviour
TPId:	SIP_CC_PR_MP_RQ_I_001
Status:	Mandatory.
Ref:	Section 16.6 (item 2) of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an INVITE request with the Request-URI containing a not allowed parameter, removes this parameter from the Request-URI before forwarding that message.
TPId:	SIP_CC_PR_MP_RQ_I_002
Status:	Mandatory.
Ref:	Section 16.6 (item 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an ACK request, with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message.
TPId:	SIP_CC_PR_MP_RQ_I_003
Status:	Mandatory.
Ref:	Section 16.6 (item 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a CANCEL request with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message.
TPId:	SIP_CC_PR_MP_RQ_I_004
Status:	Mandatory.
Ref:	Section 16.6 (item 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a BYE request with the Request-URI containing a not allowed parameter, removes that parameter from the Request-URI before forwarding that message.
6.3.3.1.2 Response	

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6.3.3.1.2.1	Valid behaviour
TPId:	SIP_CC_PR_MP_RS_V_001
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Success (200 OK) response with the topmost Via header indicating its own location, deletes that header and forwards the message to the address indicated in the next Via header value.
TPId:	SIP_CC_PR_MP_RS_V_002
Status:	Mandatory.
Ref:	Sections 16.11 and 18.1.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Success (200 OK) response with the topmost Via header not indicating its own location, does not forward the message.
TPId:	SIP_CC_PR_MP_RS_V_003
Status:	Void.
TPId:	SIP_CC_PR_MP_RS_V_004
Status:	Mandatory.
Ref:	Sections 16.7 (item) 3 and 16.11 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, on receipt of a Success (200 OK) response that does not match to an existing client transaction with a single Via header, does not forward the message.
TPId:	SIP_CC_PR_MP_RS_V_005
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a Success (200 OK) response that matches to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_006
Status:	PICS: A.77/1.1 OR A.77/2.1 OR A.77/3.1 OR A.77/4.1.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a Trying (100 Trying) provisional response that does not match to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_007
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a Ringing (180 Ringing) provisional response that does not match to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_008
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Moved Temporarily (302 Moved Temporarily) Redirection response that does not match to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_009
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Gone (410 Gone) Request failure response that does not match to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_010
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Server Internal Error (500 Server Internal Error) server failure response that does not match to an existing client

	transportion removes the termost vie from the response and ferry and it to the
	address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_011
Status:	Mandatory.
Ref:	Sections 16.7 and 16.11 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a Decline (603 Decline) Global failure response that does not match to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_012
Status:	PICS: A.77/1.2.
Ref:	Section 16.7 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Ringing (180 Ringing) provisional response matching to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_013
Status:	PICS: A.77/1.2.
Ref:	Section 16.7 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Moved Temporarily (302 Moved Temporarily) Redirection response matching to an existing client transaction_and the Request-URI indicating a URI the proxy is not responsible for, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
NOTE – If it is not p deselected.	possible to define a URI which the proxy is not responsible for, the TP should be

TPId:	SIP_CC_PR_MP_RS_V_014
Status:	PICS: A.77/1.2.
Ref:	Section 16.7 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Gone (410 Gone) Request failure response matching to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_015
Status:	PICS: A.77/1.2.
Ref:	Section 16.7 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Server Internal Error (500 Server Internal Error) server failure response matching to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_016
Status:	Recommended AND PICS: A.77/1.2.

Ref:	Section 16.7 (items 5 and 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Service Unavailable (503 Service Unavailable) server failure response matching to an existing client transaction, generates a Server Internal Error (500 Server Internal Error) server failure response, and forwards it.
TPId:	SIP_CC_PR_MP_RS_V_017
Status:	PICS: A.77/1.2.
Ref:	Section 16.7 (item 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT having already proxy an INVITE, on receipt of a Decline (603 Decline) Global failure response matching to an existing client transaction, removes the topmost via from the response and forwards it to the address indicated in the next Via header.
TPId:	SIP_CC_PR_MP_RS_V_018
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 200 response from the other client transaction, forwards the 200 response.
TPId:	SIP_CC_PR_MP_RS_V_019
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 302 response from the other client transaction, forwards the 302 response.
TPId:	SIP_CC_PR_MP_RS_V_020
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 486 response from the other client transaction, forwards the 302 response.
TPId:	SIP_CC_PR_MP_RS_V_021
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 500 response from the other client transaction, forwards the 302 response.
TPId:	SIP_CC_PR_MP_RS_V_022
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].

Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response.
TPId:	SIP_CC_PR_MP_RS_V_023
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 200 response from the other client transaction, forwards the 200 response.
TPId:	SIP_CC_PR_MP_RS_V_024
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 302 response from the other client transaction, forwards the 302 response.
TPId:	SIP_CC_PR_MP_RS_V_025
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 486 response from the other client transaction, forwards the 486 response.
TPId:	SIP_CC_PR_MP_RS_V_026
TPId: Status:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4.
TPId: Status: Ref:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
TPId: Status: Ref: Purpose:	<pre>SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response.</pre>
TPId: Status: Ref: Purpose: TPId:	<pre>SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027</pre>
TPId: Status: Ref: Purpose: TPId: Status:	<pre>SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4.</pre>
TPId: Status: Ref: Purpose: TPId: Status: Ref:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Status: Ref:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 415 response from the other client transaction, forwards the 415 response.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: TPId:	SIP_CC_PR_MP_RS_V_026 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response. SIP_CC_PR_MP_RS_V_027 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 407 response. SIP_CC_PR_MP_RS_V_028 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 415 response from the other client transaction, forwards the 415 response. SIP_CC_PR_MP_RS_V_029

Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 420 response from the other client transaction, forwards the 420 response.
TPId:	SIP_CC_PR_MP_RS_V_030
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 484 response from the other client transaction, forwards the 484 response.
TPId:	SIP_CC_PR_MP_RS_V_031
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 500 response from the other client transaction, forwards the 486 response.
TPId:	SIP_CC_PR_MP_RS_V_032
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response.
TPId:	SIP_CC_PR_MP_RS_V_033
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.3 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 401 response from one client transaction, on receipt of a 401 response from the other client transaction, forwards the 401 response including all WWW-Authenticate and Proxy-Authenticate headers collected from the received responses.
TPId:	SIP_CC_PR_MP_RS_V_034
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.3 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 407 response from one client transaction, on receipt of a 407 response from the other client transaction, forwards the 407 response including all Proxy-Authenticate headers collected from the received responses.
TPId:	SIP_CC_PR_MP_RS_V_035
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].

Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 500 response from one client transaction, on receipt of a 200 response from the other client transaction, forwards the 200 response.
TPId:	SIP_CC_PR_MP_RS_V_036
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 500 response from one client transaction, on receipt of a 302 response from the other client transaction, forwards the 302 response.
TPId:	SIP_CC_PR_MP_RS_V_037
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 500 response from one client transaction, on receipt of a 486 response from the other client transaction, forwards the 486 response.
TPId:	SIP_CC_PR_MP_RS_V_038
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 500 response from the other client transaction, forwards the 500 response.
трід.	SID CC DD MD DS V 030
1110.	
Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4.
Status: Ref:	Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
Status: Ref: Purpose:	Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response.
Status: Ref: Purpose: TPId:	Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040
Status: Ref: Purpose: TPId: Status:	Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4.
Status: Ref: Purpose: TPId: Status: Ref:	Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 Sh _CC_TK_MI _KS_V_039 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response.
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	 SH_CC_IR_MI_RS_V_039 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response. SIP_CC_PR_MP_RS_V_041
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	 SH_CC_FR_MF_RS_V_039 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response. SIP_CC_PR_MP_RS_V_041 PICS: A.77/1.2 AND A.77/1.4.
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref: Ref:	 SH_CC_FR_MF_RS_V_039 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response. SIP_CC_PR_MP_RS_V_041 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261].
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 SH_CC_PR_MP_RS_V_009 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response. SIP_CC_PR_MP_RS_V_041 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 180 response from the other client transaction, forwards the 180 response.
Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: TPId:	 SH_CC_PR_MP_RS_V_009 Recommended AND PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 503 response from one client transaction, on receipt of a 503 response from the other client transaction, forwards the 500 response. SIP_CC_PR_MP_RS_V_040 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 300 response from one client transaction, on receipt of a 603 response from the other client transaction, forwards the 603 response. SIP_CC_PR_MP_RS_V_041 PICS: A.77/1.2 AND A.77/1.4. Section 16.7 (item 6) of [IETF RFC 3261]. Ensure that the IUT, after forking an INVITE to two locations and having received a 302 response from one client transaction, on receipt of a 180 response from the other client transaction, forwards the 180 response. SIP_CC_PR_MP_RS_V_042

Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 486 response from one client transaction, on receipt of a 180 response from the other client transaction, forwards the 180 response.
TPId:	SIP_CC_PR_MP_RS_V_043
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 500 response from one client transaction, on receipt of a 180 response from the other client transaction, forwards the 180 response.
TPId:	SIP_CC_PR_MP_RS_V_044
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 182 response from the other client transaction, forwards the 182 response.
TPId:	SIP_CC_PR_MP_RS_V_045
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 200 response from the other client transaction, forwards the 200 response.
TPId:	SIP_CC_PR_MP_RS_V_046
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 10) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 200 response from the other client transaction, sends a CANCEL request to the first client transaction with the same Call-ID, From header, To header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the CSeq method set to CANCEL.
TPId:	SIP_CC_PR_MP_RS_V_047
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (item 6) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 302 response from the other client transaction, does not forward the 302 response immediately.

SIP_CC_PR_MP_RS_V_048
PICS: A.77/1.2 AND A.77/1.4.
Section 16.7 (item 6) of [IETF RFC 3261].
Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 486 response from the other client transaction, does not forward the 486 response immediately.
SIP_CC_PR_MP_RS_V_049
PICS: A.77/1.2 AND A.77/1.4.
Section 16.7 (item 6) of [IETF RFC 3261].
Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 500 response from the other client transaction, does not forward the 500 response immediately.
SIP_CC_PR_MP_RS_V_050
PICS: A.77/1.2 AND A.77/1.4.
Section 16.7 (item 10) of [IETF RFC 3261].
Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 180 response from one client transaction, on receipt of a 603 response from the other client transaction, sends a CANCEL request to the first client transaction with the same Call-ID, From header, To header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the CSeq method set to CANCEL.
SIP_CC_PR_MP_RS_V_051
PICS: A.77/1.2 AND A.77/1.4.
Section 16.7 (item 10) of [IETF RFC 3261].
Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 200 response from one client transaction, on receipt of a 180 response from the other client transaction, sends a CANCEL request to that client transaction with the same Call-ID, From header, To header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the CSeq method set to CANCEL.
SIP_CC_PR_MP_RS_V_052
PICS: A.77/1.2 AND A.77/1.4.
Section 16.7 (item 10) of [IETF RFC 3261].
Ensure that the IUT, after forking an INVITE to two locations and having received (and forwarded) a 603 response from one client transaction, on receipt of a 180 response from the other client transaction, sends a CANCEL request to that client transaction with the same Call-ID, From header, To header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the CSeq method set to CANCEL.

TPId:	SIP_CC_PR_MP_RS_V_053
Status:	PICS: A.77/1.2 AND A.77/1.4.
Ref:	Section 16.7 (items 10 and 5) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an INVITE to two locations and having received a 603 response from one client transaction, and having sent a CANCEL to the second client transaction, on receipt of a 487 response from the other client transaction, forwards the 603 response.

6.3.3.2 Transaction

6.3.3.2.1 Client

6.3.3.2.1.1	Valid behaviour
TPId:	SIP_CC_PR_TR_CL_V_001
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a CANCEL at server side matching to a response context and the related client transaction is in the INVITE Proceeding state, sends a CANCEL from the related pending client transaction with the Request-URI, Call-ID, To, From headers, CSeq number and the Tag parameters identical as in the INVITE request to be cancelled and the CSeq method set to CANCEL.
TPId:	SIP_CC_PR_TR_CL_V_002
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a CANCEL at server side matching to a response context and the related client transaction is in the INVITE Proceeding state, sends a CANCEL from the related pending client transaction with the Via header identical as in topmost Via header in the INVITE request to be cancelled.
TPId:	SIP_CC_PR_TR_CL_V_003
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a CANCEL at server side matching to a response context, but the related client transaction is in the INVITE Calling state, does not send a CANCEL.
TPId:	SIP_CC_PR_TR_CL_V_004
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having received a CANCEL request matching to a response context while the related client transaction is in the INVITE Calling state, on receipt of a provisional response, sends a CANCEL from the related client transaction.

TPId:	SIP_CC_PR_TR_CL_V_005
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having received a CANCEL request matching to a response context while the related client transaction is in the INVITE Calling state, on receipt of a final response, does not send a CANCEL from the related client transaction.
TPId:	SIP_CC_PR_TR_CL_V_006
Status:	PICS: A.77/1.2.
Ref:	Sections 16.7 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in the INVITE Client Calling state on receipt of a Moved Temporarily (302 Moved Temporarily) Redirection response matching to an existing client transaction, responds with an ACK request, with the same Call-ID, From header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the To header the same value as the To header in the received response and the CSeq method set to ACK.
TPId:	SIP_CC_PR_TR_CL_V_007
Status:	PICS: A.77/1.2.
Ref:	Sections 16.7 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in the INVITE Client Calling state on receipt of a Gone (410 Gone) Request failure response matching to an existing client transaction, responds with an ACK request, with the same Call-ID, From header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the To header the same value as the To header in the received response and the CSeq method set to ACK.
TPId:	SIP_CC_PR_TR_CL_V_008
Status:	PICS: A.77/1.2.
Ref:	Sections 16.7 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in the INVITE Client Calling state on receipt of a Service Unavailable (503 Service Unavailable) server failure response matching to an existing client transaction, responds with an ACK request, with the same Call-ID, From header, Request-URI, CSeq number as in the previous INVITE, with a single Via header same as topmost Via of the previous INVITE and the To header the same value as the To header in the received response and the CSeq method set to ACK.
TPId:	SIP_CC_PR_TR_CL_V_009
Status:	PICS: A.77/1.2.
Ref:	Sections 16.7 and 17.1.1.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in the INVITE Client Calling state on receipt of a Decline (603 Decline) Global failure response matching to an existing client transaction, responds with an ACK request, with the same Call-ID, From header, Request-URI, CSeq number as in the previous INVITE, with a single

	Via header same as topmost Via of the previous INVITE and the To header the same value as the To header in the received response and the CSeq method set to ACK.	
TPId:	SIP_CC_PR_TR_CL_V_010	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.1.1.2 (Figure 5) of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Trying (100 Trying) response enters in the Proceeding state.	
TPId:	SIP_CC_PR_TR_CL_V_011	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.1.1.2 (Figure 5) of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Session Progress (183 Session Progress) response enters in the Proceeding state.	
TPId:	SIP_CC_PR_TR_CL_V_012	
Status:	PICS: A.92/1.	
Ref:	Section 22.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request not including a Proxy-Authorization header field, sends a Proxy Authentication Required (407 Proxy Authentication Required) response, containing a Proxy-Authenticate header.	
TPId:	SIP_CC_PR_TR_CL_V_013	
Status:	PICS: A.92/1.	
Ref:	Section 22.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request not including a Proxy-Authorization header field, sends a Proxy Authentication Required (407 Proxy Authentication Required) response, containing a Proxy-Authenticate header including proper value for realm and nonce HTTP parameters.	
TPId:	SIP_CC_PR_TR_CL_V_014	
Status:	PICS: A.92/1.	
Ref:	Section 22.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT having sent a Proxy Authentication Required (407 Proxy Authentication Required) response to an INVITE request, on receipt of an INVITE request including a valid Proxy-Authenticate header field, forwards the INVITE.	
6.3.3.2.1.2	Timers	
TPId:	SIP_CC_PR_TR_CL_TI_001	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state repeats its INVITE request on the timeout condition of timer A set with a value of T1.	
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TPId:	SIP_CC_PR_TR_CL_TI_002	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If a reliable transport (TCP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state does not repeat its INVITE request on the timeout condition of timer A set with a value of T1.	
TPId:	SIP_CC_PR_TR_CL_TI_003	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state having already repeated its INVITE wait for a timer A set with a value of 2*T1 before sending it again.	
TPId:	SIP_CC_PR_TR_CL_TI_004	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport (UDP) is used, ensure that the IUT, when an INVITE client transaction is in the Calling state retransmits its INVITE request with intervals that double after each transmission.	
TPId:	SIP_CC_PR_TR_CL_TI_005	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, 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.	
TPId:	SIP_CC_PR_TR_CL_TI_006	
Status:	Void.	
TPId:	SIP_CC_PR_TR_CL_TI_007	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Proceeding state, does not repeat its INVITE request.	
TPId:	SIP_CC_PR_TR_CL_TI_008	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE client transaction is in the Completed state, on receipt of a final response that matches the transaction, repeats its ACK request until timer D set to at least 32 second expires.	

TPId:	SIP_CC_PR_TR_CL_TI_009	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If a reliable transport is used, ensure that the IUT, when an INVITE client transaction is in the Completed state, on receipt of a final response that matches the transaction, repeats its ACK request.	
TPId:	SIP_CC_PR_TR_CL_TI_010	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Section 17.1.1.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE client transaction is in the Completed state, on receipt of new final responses with different Via branch parameter value, does not repeat its ACK request until timer D set to at least 32 second expires.	
TPId:	SIP_CC_PR_TR_CL_TI_011	
Status:	Void.	
TPId:	SIP_CC_PR_TR_CL_TI_012	
Status:	PICS: A.77/3.2.	
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state having sent a BYE request, repeats its request after timer E set to T1 value expires.	
TPId:	SIP_CC_PR_TR_CL_TI_013	
TPId: Status:	SIP_CC_PR_TR_CL_T1_013 PICS: A.77/3.2.	
TPId: Status: Ref:	SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
TPId: Status: Ref: Purpose:	SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires.	
TPId: Status: Ref: Purpose: TPId:	SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014	
TPId: Status: Ref: Purpose: TPId: Status:	SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2.	
TPId: Status: Ref: Purpose: TPId: Status: Ref:	SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. 	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_015 	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_015 PICS: A.77/3.2. 	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref: Status: Ref:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_015 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_015 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. If an unreliable transport is used, ensure that the IUT, when a BYE client transaction is in the Trying state does not repeat a BYE request, after timer F set to 64*T1 expires. 	
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	 SIP_CC_PR_TR_CL_TI_013 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(2*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_014 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. 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, repeats its request after timer E set to the MIN(4*T1,T2) value expires. SIP_CC_PR_TR_CL_TI_015 PICS: A.77/3.2. Section 17.1.2.2 and Annex A of [IETF RFC 3261]. If an unreliable transport is used, ensure that the IUT, 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_CC_PR_TR_CL_TI_016 	

Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state, repeats its BYE request after timer E set in Trying state to T1 value expires.	
TPId:	SIP_CC_PR_TR_CL_TI_017	
Status:	PICS: A.77/3.2.	
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state and BYE request have been already repeated in this state, repeats its BYE request after timer E set to T2 value expires.	
TPId:	SIP_CC_PR_TR_CL_TI_018	
Status:	PICS: A.77/3.2.	
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Proceeding state, does not repeat a BYE request on an established dialog, after timer F set to 64*T1 expires.	
TPId:	SIP_CC_PR_TR_CL_TI_019	
Status:	PICS: A.77/3.2 AND A.99/9.	
Ref:	Section 17.1.2.2, section 9.1 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, when a BYE client transaction is in the Trying state, considers the transaction terminated after 64*T1 duration expires without receiving any final response.	
6.3.3.2.2 Server		
6.3.3.2.2.1 Valie	d behaviour	
TPId:	SIP_CC_PR_TR_SE_V_001	
Status:	PICS: A.77/1.2.	
Ref:	Section 16.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request, sends a provisional	

(100 Trying) response. TPId: SIP CC PR TR SE V 002

Status: PICS: A.77/1.2.

Ref: Sections 16.2 and 8.2.6.2 of [IETF RFC 3261].

Purpose: Ensure that the IUT, on receipt of an INVITE request, sends a provisional (100 Trying) response including the headers From, Call-Id, CSeq and Via copied from the INVITE message.

 TPId:
 SIP_CC_PR_TR_SE_V_003

Status: PICS: A.77/1.2.

Ref: Sections 16.2, 8.2.6.2 and 17.2.1 of [IETF RFC 3261].

Purpose: Ensure that the IUT, on receipt of an INVITE request with no "tag" set on the To header, sends a provisional (100 Trying) response including the same URI and no tag in the To header.

SIP_CC_PR_TR_SE_V_004	
PICS: A.77/1.2.	
Sections 16.2, 8.2.6.2 and 17.2.1 of [IETF RFC 3261].	
Ensure that the IUT, on receipt of an INVITE request with a "tag" set on the To header, sends a provisional (100 Trying) response including the same URI and the same tag in the To header.	
SIP_CC_PR_TR_SE_V_005	
PICS: A.77/1.2.	
Sections 16.2 and 8.2.6.1 of [IETF RFC 3261].	
Ensure that the IUT, on receipt of an INVITE request with a Timestamp header, sends a provisional (100 Trying) response with a Timestamp header.	
SIP_CC_PR_TR_SE_V_006	
PICS: A.77/1.2.	
Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].	
Ensure that the IUT in a server INVITE Proceeding state, on receipt of an INVITE request, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.	
SIP_CC_PR_TR_SE_V_007	
PICS: A.77/1.2.	
Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].	
Ensure that the IUT in a server INVITE Proceeding state, on receipt of an INVITE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first INVITE request, repeats its last response.	
SIP_CC_PR_TR_SE_V_008	
PICS: A.77/1.2.	
Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].	
Ensure that the IUT in a server INVITE Proceeding state, on receipt of an INVITE request, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first INVITE request, repeats its last response.	
SIP_CC_PR_TR_SE_V_009	
Recommended AND PICS: A.77/1.2.	
Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].	
Ensure that the IUT in a server INVITE Completed state, on receipt of an INVITE request, including a Via header set with the same branch parameter and sent-by value in the topmost list value, repeats its last response.	
SIP_CC_PR_TR_SE_V_010	
Recommended AND PICS: A.77/1.2.	
Sections 17.2.1 and 17.2.3 of [IETF RFC 3261]	

Purpose:	Ensure that the IUT in a server INVITE Completed state, on receipt of an INVITE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first INVITE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_011	
Status:	Recommended AND PICS: A.77/1.2.	
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server INVITE Completed state, on receipt of an INVITE request, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first INVITE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_012	
Status:	PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server BYE Proceeding 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 value, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_013	
Status:	PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server BYE Proceeding state, on receipt of a BYE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first BYE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_014	
Status:	PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server BYE Proceeding state, on receipt of a BYE request, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first BYE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_015	
Status:	Recommended AND PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT 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.	
TPId:	SIP_CC_PR_TR_SE_V_016	
Status:	Recommended AND PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	

Purpose:	Ensure that the IUT in a server BYE Completed state, on receipt of a BYE request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first BYE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_017	
Status:	Recommended AND PICS: A.77/3.2.	
Ref:	Sections 17.2.2 and 17.2.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server BYE Completed state, on receipt of a BYE request, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq and top Via header identical as in the first BYE request, repeats its last response.	
TPId:	SIP_CC_PR_TR_SE_V_018	
Status:	PICS: A.77/1.2.	
Ref:	Sections 16.10 and 9.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT 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.	
TPId:	SIP_CC_PR_TR_SE_V_019	
Status:	PICS: A.77/1.2 AND A.79/4.24 Status/Sending.	
Ref:	Section 9.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT 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, answers to the original INVITE request with a Request Terminated (487 Request Terminated) response.	
TPId:	SIP_CC_PR_TR_SE_V_020	
Status:	PICS: A.77/1.2.	
Ref:	Sections 16.10 and 9.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server INVITE Proceeding state, on receipt of a CANCEL, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the INVITE to be cancelled, sends a Success (200 Success) response to the CANCEL request.	
TPId:	SIP_CC_PR_TR_SE_V_021	
Status:	PICS: A.77/1.2 AND A.79/4.24 Status/Sending.	
Ref:	Section 9.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server INVITE Proceeding state, on receipt of a CANCEL, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the INVITE to be cancelled, answers to the original INVITE, request with a Request Terminated (487 Request Terminated) response.	

TPId:	SIP_CC_PR_TR_SE_V_022
Status:	PICS: A.77/1.2.
Ref:	Sections 16.10 and 9.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in a server INVITE Proceeding state, on receipt of a CANCEL, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the INVITE to be cancelled, sends a Success (200 Success) response to the CANCEL request.
TPId:	SIP_CC_PR_TR_SE_V_023
Status:	PICS: A.77/1.2 AND A.79/4.24 Status/Sending.
Ref:	Section 9.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT in a server INVITE Proceeding state, on receipt of a CANCEL, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the INVITE to be cancelled, answers to the original INVITE, request with a Request Terminated (487 Request Terminated) response.
TPId:	SIP_CC_PR_TR_SE_V_024
Status:	PICS: A.77/1.2.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT in a server INVITE Confirmed state, on receipt of an ACK request, including a Via header set with the same branch parameter and sent-by value in the topmost list value, does not forward the message.
TPId:	SIP_CC_PR_TR_SE_V_025
Status:	PICS: A.77/1.2.
Ref:	Sections 17.2.1 and 17.2.3 of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT in a server INVITE Confirmed state, on receipt of an ACK request, including a Via header set with no branch parameter but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the first INVITE request, does not forward the message.
TPId:	SIP_CC_PR_TR_SE_V_026
Status:	PICS: A.77/1.2.
Ref:	Section 17.2.1 of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT in a server INVITE Confirmed state, on receipt of an ACK request, including a Via header set with a different branch parameter without the magic cookie "z9hG4bK" but with the Request-URI, To tag, From tag, Call-ID, CSeq number and top Via header identical as in the first INVITE request, does not forward the message.
TPId:	SIP_CC_PR_TR_SE_V_027
Status:	PICS: A.77/1.2.

Ref:	Sections 17.2.1, 13.3.1.4 and Figure 7 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server INVITE Proceeding state, after sending a 4XX response, enters in the Completed state.	
TPId:	SIP_CC_PR_TR_SE_V_028	
Status:	PICS: A.77/1.2.	
Ref:	Sections 17.2.1, 13.3.1.4 and Figure 7 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT in a server INVITE Completed state, on receipt of an ACK request, enters in the Confirmed state.	
TPId:	SIP_CC_PR_TR_SE_V_029	
Status:	PICS: A.77/1.2 AND A.79/4.18 Status/Sending.	
Ref:	Section 15.1.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, 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).	
6.3.3.2.2.2 Time	ers	
TPId:	SIP_CC_PR_TR_SE_TI_001	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state repeats its response on the timeout condition of timer G set with a value of T1.	
TPId:	SIP_CC_PR_TR_SE_TI_002	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If a reliable transport (TCP) is used, ensure that the IUT, when an INVITE server transaction is in the Completed state does not repeat its response on the timeout condition of timer G set with a value of T1.	
TPId:	SIP_CC_PR_TR_SE_TI_003	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and having already sent twice times its response, repeats it after timer G set MIN(2*T1,T2) value expires.	
TPId:	SIP_CC_PR_TR_SE_TI_004	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and having already sent three times its response, repeats it after timer G set the MIN(4*T1,T2) value expires.	

TPId:	SIP_CC_PR_TR_SE_TI_005	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, 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.	
TPId:	SIP_CC_PR_TR_SE_TI_006	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Completed state and, does not repeats its response after timer H set to 64*T1 value expires.	
TPId:	SIP_CC_PR_TR_SE_TI_007	
Status:	Mandatory PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Confirmed state, enters in the Terminated state after timer I set to T4 value expires.	
TPId:	SIP_CC_PR_TR_SE_TI_008	
Status:	PICS: A.77/1.2.	
Ref:	Section 17.2.1 and Annex A of [IETF RFC 3261].	
Purpose:	If a reliable transport is used, ensure that the IUT, when an INVITE server transaction is in the Confirmed state, enters immediately in the Terminated state.	
TPId:	SIP_CC_PR_TR_SE_TI_009	
Status:	PICS: A.77/3.2.	
Ref:	Section 17.2.2 and Annex A of [IETF RFC 3261].	
Purpose:	If an unreliable transport is used, ensure that the IUT, 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.	
6.3.4 Redirect Ser	ver	
Group selection:	IUT is a Redirect Server.	
Status:	PICS: A.1/4.	
6.3.4.1 Call establishment		
6.3.4.1.1 Valid beha	aviour	
TPId:	SIP_CC_RD_CE_V_001	
Status:	PICS: A.114/1.	

Ref: Sections 8.3 and 8.2.6.2 of [IETF RFC 3261].

Purpose: Ensure that the IUT on receipt of an INVITE request, sends a 3XX redirection response to the caller including a Contact header set to the

	registered location of the callee and the To header set to the received value with an additional TAG.	
TPId:	SIP_CC_RD_CE_V_002	
Status:	PICS: A.114/1.	
Ref:	Sections 8.3 and 8.2.6.2 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request, sends a 3XX redirection response to the caller after having copy the received Via header into the response.	
TPId:	SIP_CC_RD_CE_V_003	
Status:	PICS: A.114/1.	
Ref:	Section 8.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT, having sent a 3XX redirection response, accepts an ACK request.	
TPId:	SIP_CC_RD_CE_V_004	
Status:	PICS: A.114/1.	
Ref:	Section 8.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request, send a 3XX redirection response to the caller including a Contact header set to the list of locations of the callee previously registered.	
TPId:	SIP_CC_RD_CE_V_005	
Status:	PICS: A.114/1.	
Ref:	Section 8.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Require header set to a value that it does not understand, sends a 3XX redirection response to the caller.	
TPId:	SIP_CC_RD_CE_V_006	
Status:	PICS: A.114/1.	
Ref:	Sections 8.3 and 21.4.18 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request for a UA for which the registration has expired, sends a Temporarily Unavailable (480 Temporarily Unavailable) request failure response to the caller.	
TPId:	SIP_CC_RD_CE_V_007	
Status:	PICS: A.114/1 AND A.115/4.5.	
Ref:	Sections 8.3 and 21.4.5 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request for an unknown UA, sends a Not found (404 Not Found) request failure response to the caller.	
TPId:	SIP_CC_RD_CE_V_008	
Status:	PICS: A.121/1.	
Ref:	Sections 10.3 (item 3) and 22.2 of [IETF RFC 3261].	

Purpose: Ensure that the IUT on receipt of an INVITE request not including an Authorization or Proxy-Authorization header fields, sends an Unauthorized (401 Unauthorized) or Proxy Authentication Required (407 Proxy Authentication Required) response, containing a WWW-Authenticate or a Proxy-Authenticate header.

TPId: SIP_CC_RD_CE_V_009

Status: PICS: A.121/1.

Ref: Section 22.2 of [IETF RFC 3261].

Purpose: Ensure that the on receipt of an INVITE request not including an Authorization or a Proxy-Authorization header fields, sends an Unauthorized (401 Unauthorized) or Proxy Authentication Required (407 Proxy Authentication Required) response, containing a WWW-Authenticate or a Proxy-Authenticate header including proper value for realm and nonce HTTP parameters.

TPId:SIP_CC_RD_CE_V_010

Status: PICS: A.121/1.

Ref: Section 22.2 of [IETF RFC 3261].

Purpose: Ensure that the IUT having sent an Unauthorized (401 Unauthorized) or a Proxy Authentication Required (407 Proxy Authentication Required) response to an INVITE request, on receipt of a INVITE request including a valid Authorization or Proxy-Authorization header field, sends a 3XX redirection response.

6.3.4.2 Call release

6.3.4.2.1 Valie	d behaviour
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TPId:	SIP_CC_RD_CR_V_001	
Status:	PICS: A.114/1.	
Ref:	Section 8.3 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of an INVITE request immediately followed by a CANCEL request with the same Call-ID, To, From, top Via header, Request URI and CSeq, sends an OK (200 OK) response to the caller.	
TPId:	SIP_CC_RD_CR_V_002	
Status:	PICS: A.114/1 AND A.117/4.9.	
Ref:	Sections 8.3 and 21.4.19 of [IETF RFC 3261].	
Purpose:	Ensure that the IUT on receipt of a CANCEL request whose Call-ID does not match a pending request, sends a Call Leg/Transaction Does Not Exist (481 Call Leg/Transaction Does Not Exist) request failure to the caller.	
TPId:	SIP_CC_RD_CR_V_003	
Status:	PICS: A.114/2.	
Ref:	Sections 8.3 and 8.2.6.2 of [IETF RFC 3261]	
Purpose:	Ensure that the IUT on receipt of a BYE request, sends a 3XX redirection response to the caller including a Contact header set to the registered location of the callee.	

6.4 Test Purposes for querying for capabilities

6.4.1 Originating endpoint

Group Se	lection:	IUT is a User Agent that can ask for capabilities.
Status:		PICS: A.49/1 AND A.1/1.
6.4.1.1	Valid beha	aviour
TPId:		SIP_QC_OE_V_001
Status:		Mandatory.
Ref:		Sections 11 and 8.1.1 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request including at least To, From, CSeq, Call-ID, Max-Forwards and Via headers.
TPId:		SIP_QC_OE_V_002
Status:		Recommended.
Ref:		Sections 11 and 8.1.1 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request with a Request-URI set to the same URI value of the To header.
TPId:		SIP_QC_OE_V_003
Status:		Mandatory.
Ref:		Sections 11 and 8.1.1.3 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request including a From header with a TAG parameter.
TPId:		SIP_QC_OE_V_004
Status:		Mandatory.
Ref:		Sections 11 and 8.1.1.5 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request including a CSeq header with a method that matches "OPTIONS".
TPId:		SIP_QC_OE_V_005
Status:		Recommended.
Ref:		Sections 11 and 8.1.1.6 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request including a Max-Forward header set to 70.
TPId:		SIP_QC_OE_V_007
Status:		Mandatory.
Ref:		Sections 11 and 8.1.1.7 of [IETF RFC 3261].
Purpose:		Ensure that the IUT, to query for capabilities sends an OPTIONS request including a Via header with a protocol name set to SIP, a protocol version set to 2.0 and a branch parameter set to a value beginning with "z9hG4bK".
TPId:		SIP_QC_OE_V_008
Status:		PICS: A.52/2.1.
Ref:		Section 11.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, to query for capabilities sends an OPTIONS request including an Accept header set to the type of message body expected in the response.
TPId:	SIP_QC_OE_V_009
Status:	Mandatory.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request is able to receive a Success (200 OK) response.
TPId:	SIP_QC_OE_V_010
Status:	Mandatory.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request is able to receive a Busy here (486 Busy here) response.
TPId:	SIP_QC_OE_V_011
Status:	Mandatory.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request is able to receive a Success (200 OK) response including Allow, Accept, Accept-Encoding, Accept-Language and Supported header.
TPId:	SIP_QC_OE_V_012
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its OPTIONS request with an Authorization header and with an incremented Cseq value.
TPId:	SIP_QC_OE_V_013
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request, on receipt of an Unauthorized (401 Unauthorized) response including a WWW-Authenticate header, repeats its OPTIONS request with an Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
TPId:	SIP_QC_OE_V_014
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its OPTIONS request with a Proxy-Authorization header and with an incremented Cseq value.

TPId:	SIP_QC_OE_V_015
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an OPTIONS request, on receipt of a Proxy Authentication Required (407 Proxy Authentication Required) response including a Proxy-Authenticate header, repeats its OPTIONS request with a Proxy-Authorization header including proper values for username, realm nonce, digest-uri and response HTTP parameters.
6.4.1.2 Timers	
TPId:	SIP_QC_OE_TI_001
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent an OPTIONS request, repeats its request after timer E set to T1 value expires.
TPId:	SIP_QC_OE_TI_002
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent twice times an OPTIONS request, repeats its request after timer E set to the $MIN(2*T1,T2)$ value expires.
TPId:	SIP_QC_OE_TI_003
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT, having sent three times an OPTIONS request, repeats its request after timer E set to the MIN(4*T1,T2) value expires.
TPId:	SIP_QC_OE_TI_004
Status:	PICS: A.61/5.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	If an unreliable transport is used, ensure that the IUT does not repeat an OPTIONS request, after timer F set to 64*T1 expires.
TPId:	SIP_QC_OE_TI_005
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an OPTIONS client transaction is in the Proceeding state, repeats its OPTIONS request after timer E set to T1 value expires.
TPId:	SIP_QC_OE_TI_006
Status:	Mandatory.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].

Purpose:	Ensure that the IUT, when an OPTIONS client transaction is in the Proceeding state and OPTIONS request have been already repeated in this state, repeats its OPTIONS request after timer E set to T2 value expires.
TPId:	SIP_QC_OE_TI_007
Status:	PICS: A.61/6.
Ref:	Section 17.1.2.2 and Annex A of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an OPTIONS client transaction is in the Proceeding state, does not repeat its OPTIONS request, after timer F set to $64*T1$ expires.
6.4.2 Terminating	g endpoint
Group Selection:	IUT is a User Agent that can answer to capabilities request.
Status:	PICS: A.1/1 AND A.49/2.
6.4.2.1 Valid beha	aviour
TPId:	SIP_QC_TE_V_001
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, sends a Success (200 OK).
TPId:	SIP_QC_TE_V_002
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, sends a Success (200 OK) including the headers From, Call-ID, CSeq and Via headers copy from the OPTIONS request.
TPId:	SIP_QC_TE_V_003
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request with no TAG set on the To header, sends a Success (200 OK) including the same URI and an additional TAG for the To header.
TPId:	SIP_QC_TE_V_004
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request with a TAG set on the To header, sends a Success (200 OK) including the same URI and the same TAG for the To header.
TPId:	SIP_QC_TE_V_005
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an OPTIONS request, sends a Success (200 OK) including Allow, Accept, Accept-Encoding, Accept-Language and Supported headers.
TPId:	SIP_QC_TE_V_006
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request with an Accept header set to "application/sdp", sends a Success (200 OK) including a message Body.
TPId:	SIP_QC_TE_V_007
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request with no Accept header, sends a Success (200 OK) including a message Body.
TPId:	SIP_QC_TE_V_008
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request not including an Authorization header field, sends an Unauthorized (401 Unauthorized) response, containing a WWW-Authenticate header.
TPId:	SIP_QC_TE_V_009
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request not including an Authorization header field, sends an Unauthorized (401 Unauthorized) response, containing a WWW-Authenticate header including proper value for realm and nonce HTTP parameters.
TPId:	SIP_QC_TE_V_010
Status:	PICS: A.54/1.
Ref:	Sections 11 and 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent an Unauthorized (401 Unauthorized) response to an OPTIONS request, on receipt of an OPTIONS request including a valid Authorization header field, sends a Success (200 OK) response.
6.4.3 Proxy	
Group Selection:	IUT is a Proxy.
Status:	PICS: A.1/3.
6.4.3.1 Valid beha	aviour
TPId:	SIP_QC_PR_V_001
Status:	Mandatory.
Ref:	Section 11 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an OPTIONS request addressing itself with a Request-URI without user part, sends a Success (200 OK).
TPId:	SIP_QC_PR_V_002
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS identified by a Request-URI addressing another UA, forwards the message to the target indicated in the Request-URI.
TPId:	SIP_QC_PR_V_003
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request addressing itself with a Request-URI without user part, sends a Success (200 OK) including the headers From, Call-ID, CSeq and Via headers copy from the OPTIONS request.
TPId:	SIP_QC_PR_V_004
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, with no TAG set on the To header, sends a Success (200 OK) including the same URI and an additional TAG for the To header.
TPId:	SIP_QC_PR_V_005
Status:	Mandatory.
Ref:	Sections 11.2 and 8.2.6.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, with a TAG set on the To header, sends a Success (200 OK) including the same URI and the same TAG for the To header.
TPId:	SIP_QC_PR_V_006
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request addressing itself with a Request-URI without user part, sends a Success (200 OK) including Allow, Accept, Accept-Encoding, Accept-Language and Supported headers.
TPId:	SIP_QC_PR_V_007
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, with an Accept header set to "application/sdp", sends a Success (200 OK) including a message Body.

TPId:	SIP_QC_PR_V_008
Status:	Recommended.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, with no Accept header, sends a Success (200 OK) including a message Body.
TPId:	SIP_QC_PR_V_009
Status:	PICS: A.77/1.4.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request and the determined target set is containing two URIs forwards the message (forking) to both URIs.
TPId:	SIP_QC_PR_V_010
Status:	PICS: A.77/1.4.
Ref:	Section 11.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, after forking an OPTIONS to two locations and having received (and forwarded) a 200 response from one client transaction, on receipt of a 200 response from the other client transaction, does not forward the additional 200 response.
TPId:	SIP_QC_PR_V_011
Status:	PICS: A.105/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, not including a Proxy-Authorization header field, sends a Proxy Authentication Required (407 Proxy Authentication Required) response, containing a Proxy-Authenticate header.
TPId:	SIP_QC_PR_V_012
Status:	PICS: A.105/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an OPTIONS request, addressing itself with a Request-URI without user part, not including a Proxy-Authorization header field, sends a Proxy Authentication Required (407 Proxy Authentication Required) response, containing a Proxy-Authenticate header including proper value for realm and nonce HTTP parameters.
TPId:	SIP_QC_PR_V_013
Status:	PICS: A.105/1.
Ref:	Section 22.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT having sent a Proxy Authentication Required (407 Proxy Authentication Required) response to an OPTIONS request, addressing itself with a Request-URI without user part, on receipt of an OPTIONS request including a valid Proxy-Authenticate header field, for sends a Success (200 OK) response.

6.5 Test purposes for messaging

6.5.1 Registrant

Group selection: Registration being listed as an option, the test purpose is applicable if the SUT is declared as supporting periodic registration and can behave as User Agent.

Status: PICS: A.1/1 AND A.2/1.

6.5.1.1 Valid behaviour

TPId: SIP_MG_RT_V_001 Status: Mandatory. **Ref**: Section 19.1.1 of [IETF RFC 3261]. **Purpose**: Ensure that the IUT, having sent a REGISTER request, on receipt of a valid Success (200 OK) response including non-understood uri-parameters in SIP-URI of the Contact header, ignores it and considers to have received a Success (200 OK). **TPId:** SIP_MG_RT_V_002 Status: Mandatory. **Ref**: Section 19.1.1 of [IETF RFC 3261]. **Purpose**: Ensure that the IUT, having sent a REGISTER request, on receipt of a valid Success (200 OK) response including header parameters in the SIP-URI of the Contact header, considers to have received a Success (200 OK). **TPId:** SIP MG RT V 003 Status: Mandatory. **Ref**: Section 7.2 of [IETF RFC 3261] **Purpose**: Ensure that the IUT, having sent a REGISTER request, on receipt of a valid Success (299 OK) response with non-defined last two digits considers to have received a Success (200 OK). **TPId:** SIP_MG_RT_V_004 Status: Mandatory. **Ref**: Section 7.2 of [IETF RFC 3261]. Ensure that the IUT, having sent a REGISTER request, on receipt of a valid **Purpose**: Success (200 PERFECT) response with an unknown reason phrase considers to have received a Success (200 OK). **TPId:** SIP_MG_RT_V_005 Status: Mandatory. **Ref**: Section 7.3.1 of [IETF RFC 3261]. Ensure that the IUT, having sent a REGISTER request, is able to receive a **Purpose**: Success (200 OK) response including headers named with upper and lower cases. **TPId:** SIP_MG_RT_V_006 Status: Mandatory.

Ref:	Section 25.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, is able to receive a Success (200 OK) response including a header set with values preceded by several leading white space and properly extended over multiple lines.
TPId:	SIP_MG_RT_V_007
Status:	Mandatory.
Ref:	Sections 25.1 and 7.3.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, is able to receive a Success (200 OK) response including headers set with short field names.
TPId:	SIP_MG_RT_V_008
Status:	Mandatory.
Ref:	Section 7.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request over a stream-oriented (TCP) transport, on receipt of a Success (200 OK) response with several CRLF before the start ignores them and considers to have received a Success (200 OK).
6.5.1.2 Invalid be	haviour
TPId:	SIP_MG_RT_I_001
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, on receipt of a Success (200 OK) response with transport parameters in the From and To headers considers to have received a Success (200 OK).
TPId:	SIP_MG_RT_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, on receipt of a Success (200 OK) response with a ttl parameter in the From and To headers ignores them and considers to have received a Success (200 OK).
TPId:	SIP_MG_RT_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, on receipt of a Success (200 OK) response with an URI including a header parameter in the To and From headers ignores them and considers to have received a Success (200 OK).
TPId:	SIP_MG_RT_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, having sent a REGISTER request, on receipt of a Success (200 OK) response with a method parameters in the To and From headers ignores them and considers to have received a Success (200 OK).
TPId:	SIP_MG_RT_I_005
Status:	Mandatory.
Ref:	Section 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, having sent a REGISTER request, on receipt of a Session Progress (183 Session Progress) response with a Contact header ignores it and accepts the following Success (200 OK).
6.5.2 Registrar	
Group selection:	IUT is a Registrar.
Status:	PICS: A.1/2.
6.5.2.1 Valid beha	aviour
TPId:	SIP_MG_RR_V_001
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including escaped characters in the SIP-URI of the Contact header, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including escaped delimiters in SIP-URI of the Contact header, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including non-understood uri- parameters in SIP-URI of the Contact header, ignores it and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a header parameter in the SIP-URI of the Contact header, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_005
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of a REGISTER request including a method parameter set to "REGISTER" in the SIP-URI of Contact header, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_006
Status:	Mandatory.
Ref:	Section 8.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including an unknown header, ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_007
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including headers named with upper and lower cases, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_008
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including headers set with values preceded by several leading white space and properly extended over multiple lines, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_009
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a Contact header set with multiple values separated by a comma, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_010
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including multiple Contact headers, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_011
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including an expires parameter named with upper and lower cases of Contact header, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_012
Status:	Mandatory.
Ref:	Section 7.3.3 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of a REGISTER request including headers set with short names, sends a Success (200 OK) response.
TPId:	SIP_MG_RR_V_013
Status:	Mandatory.
Ref:	Section 7.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of a REGISTER request over a stream-oriented (TCP) transport with several CRLF before the start-line, sends a Success (200 OK) response.
6.5.2.2 Inva	alid behaviour
TPId:	SIP_MG_RR_I_001
Status:	Mandatory.
Ref:	Section 7.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including a Request line SIP-Version in lower cases ignores it and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including ttl parameter in the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including header parameters in the SIP-URI of the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including method parameters set to "INVITE" in the SIP-URI of the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_I_005
Status:	Mandatory.
Ref:	Sections 7.3.2 and 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request including an Alert-Info header ignores it and sends a Success (200 OK) response.
TPId:	SIP_MG_RR_I_006
Status:	Recommended.

Ref:	Section 21.4.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a REGISTER request without CSeq header sends a Bad Request (400 Bad Request) response.
6.5.3 Originating	endpoint
Group Selection:	IUT can behave as a User Agent client to establish a call.
Status:	PICS: A.1/1 AND PICS: A.16/1.1.
6.5.3.1 Valid beha	aviour
TPId:	SIP_MG_OE_V_001
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including non-understood uri-parameters in SIP-URI of the From header, ignores it and sends an ACK request.
TPId:	SIP_MG_OE_V_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including header parameters in the SIP-URI of the Contact header, sends an ACK request.
TPId:	SIP_MG_OE_V_003
Status:	Mandatory.
Ref:	Section 7.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (299 OK) response with non-defined last two digits, sends an ACK request.
TPId:	SIP_MG_OE_V_004
Status:	Mandatory.
Ref:	Section 7.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 PERFECT) response with an unknown reason phrase, sends an ACK request.
TPId:	SIP_MG_OE_V_005
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including headers named with upper and lower cases, sends an ACK request.
TPId:	SIP_MG_OE_V_006
Status:	Mandatory.

Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including headers set with values preceded by several leading white space and properly extended over multiple lines, sends an ACK request.
TPId:	SIP_MG_OE_V_007
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including a headers set with short names, sends an ACK request.
TPId:	SIP_MG_OE_V_008
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including escaped characters in the SIP-URI of the From header, sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_009
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including escaped delimiters in the SIP-URI of the From header, sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_010
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including non-understood uri-parameters in the SIP-URI of the BYE Request-URI, sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_011
Status:	Mandatory.
Ref:	Section 8.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including an unknown header, ignores it and sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_012
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including headers named with upper and lower cases sends a Success (200 OK) response.

TPId:	SIP_MG_OE_V_013
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including headers set with values preceded by several leading white space and properly extended over multiple lines, sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_014
Status:	Mandatory.
Ref:	Section 7.3.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including headers set with short names, sends a Success (200 OK) response.
TPId:	SIP_MG_OE_V_015
Status:	Mandatory.
Ref:	Section 18.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a 65.535 bytes long Success (200 OK) response including session description parameters that it can accept, transported by UDP, sends an ACK request.
6.5.3.2 Invalid be	haviour
TPId:	SIP_MG_OE_I_001
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response including transport parameters in the From and To headers, ignores them and sends an ACK request.
TPId:	SIP_MG_OE_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with a ttl parameter in the From and To headers, ignores them and sends an ACK request.
TPId:	SIP_MG_OE_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with an URI including a header parameter in the To and From headers ignores them and sends an ACK request.

TPId:	SIP_MG_OE_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state, on receipt of a Success (200 OK) response with a method parameter in the To and From headers ignores them and sends an ACK request.
TPId:	SIP_MG_OE_I_005
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including maddr parameters in the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_OE_I_006
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including header parameters in the SIP-URI of the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_OE_I_007
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including method parameters set to "CANCEL" parameter in the SIP-URI of the From and To headers ignores them and sends a Success (200 OK) response.
TPId:	SIP_MG_OE_I_008
Status:	Mandatory.
Ref:	Sections 7.3.2 and 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT, once a dialog has been established, on receipt of a BYE request including an In-Reply-To header ignores it and sends a Success (200 OK) response.
TPId:	SIP_MG_OE_I_009
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state while a message-oriented (UDP) transport is used, on receipt of a Success (200 OK) response including a body part shorter than the length indicated in the Content-Length header field, discards it and does not send a ACK request.
TPId:	SIP_MG_OE_I_010
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].

Purpose: Ensure that the IUT, when an INVITE client transaction is in the Calling state while a message-oriented (UDP) transport is used, on receipt of a Success (200 OK) response including a body part longer than the length indicated in the Content-Length header field, ignores extra bytes and sends a ACK request.

6.5.4 Terminating endpoint

Group Selection: IUT can behave as a User Agent server to establish a call.

Status: PICS: A.1/1 AND A.16/1.2.

6.5.4.1 Valid behaviour

TPId: SIP_MG_TE_V_001 Status: Mandatory. Ref: Section 19.1.1 of [IETF RFC 3261]. **Purpose**: Ensure that the IUT on receipt of an INVITE request including escaped characters in the SIP-URI of the Contact header, sends a Success (200 OK) response preceded optionally by informational (1XX) response. **TPId:** SIP MG TE V 002 Status: Mandatory. Ref: Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including escaped **Purpose**: delimiters in the SIP-URI of the Contact header, sends a Success (200 OK) response preceded optionally by informational (1XX) response. **TPId:** SIP_MG_TE_V_003 Status: Mandatory. **Ref**: Section 19.1.1 of [IETF RFC 3261]. **Purpose**: Ensure that the IUT on receipt of an INVITE request including non-understood uri-parameters in the SIP-URI of the Contact header, sends a Success (200 OK) response preceded optionally by informational (1XX) response. **TPId:** SIP_MG_TE_V_004 Status: Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ref: Ensure that the IUT on receipt of an INVITE request including a header **Purpose**: parameter in the SIP-URI of the Contact header, sends a Success (200 OK) response preceded optionally by informational (1XX) response. **TPId:** SIP_MG_TE_V_005 Status: Mandatory. **Ref**: Section 19.1.1 of [IETF RFC 3261]. **Purpose**: Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header, sends a Success (200 OK) response preceded optionally by informational (1XX) response.

TPId:	SIP_MG_TE_V_006
Status:	Mandatory.
Ref:	Section 8.2.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a request including a non-supported Method, sends a Method not allowed (405 Method Not Allowed) response including an Allow header that lists the set of method supported.
TPId:	SIP_MG_TE_V_007
Status:	Mandatory.
Ref:	Section 8.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including an unknown header, ignores them and sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_008
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including headers named with upper and lower cases, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_009
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including headers set with values preceded by several leading white space and properly extended over multiple lines, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_010
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Via header set with multiple values separated by a comma, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_011
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including multiple Via headers, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_012
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT on receipt of an INVITE request including a branch parameter named with upper and lower cases of Via header, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_013
Status:	Mandatory.
Ref:	Section 7.3.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including headers set with short names, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_014
Status:	Mandatory.
Ref:	Section 18.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a 65.535 bytes long INVITE request including session description parameters that it can accept, transported by UDP, sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_V_015
Status:	Mandatory.
Ref:	Section 7.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request over a stream-oriented (TCP) transport with several CRLF before the start-line, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
6.5.4.2 Invalid be	haviour
TPId:	SIP_MG_TE_I_001
Status:	Mandatory.
Ref:	Section 7.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with SIP-version in lower case, sends a Success (200 OK) response preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a maddr parameter in the From and To headers, ignores them and sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including header parameters in the SIP-URI of the From and To headers, ignores them and

	sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including method parameters set to "CANCEL" in the SIP-URI of the From and To headers, ignores them and sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_I_005
Status:	Recommended.
Ref:	Section 21.4.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request without Call-ID header sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_TE_I_006
Status:	Mandatory.
Ref:	Sections 7.3.1 and 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including header field Retry-After, ignores it and sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
TPId:	SIP_MG_TE_I_007
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part shorter than the length indicated in the Content-Length header field, sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_TE_I_008
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261]
Purpose:	Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part longer than the length indicated in the Content-Length header field, ignores extra bytes and sends a Success (200 OK) response, preceded optionally by informational (1XX) response.
6.5.5 Proxy	
Group Selection:	IUT is a Proxy.
Status:	PICS: A.1/3.
6.5.5.1 Valid bel	haviour
TPId:	SIP_MG_PR_V_001
Status:	Mandatory.

Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	ensure that the IUT on receipt of an INVITE request including escaped characters in the SIP-URI of the Contact header forwards the message.
TPId:	SIP_MG_PR_V_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including escaped delimiters in the SIP-URI of the Contact header forwards the message.
TPId:	SIP_MG_PR_V_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including non-understood uri-parameters in the SIP-URI of the Contact header forwards the message.
TPId:	SIP_MG_PR_V_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a header parameter in the SIP-URI of the Contact header forwards the message.
TPId:	SIP_MG_PR_V_005
TPId: Status:	SIP_MG_PR_V_005 Mandatory.
TPId: Status: Ref:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261].
TPId: Status: Ref: Purpose:	<pre>SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message.</pre>
TPId: Status: Ref: Purpose: TPId:	<pre>SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006</pre>
TPId: Status: Ref: Purpose: TPId: Status:	<pre>SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory.</pre>
TPId: Status: Ref: Purpose: TPId: Status: Ref:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Ref:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory. Section 7.3.1 of [IETF RFC 3261].
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory. Section 7.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including headers and with upper and lower cases forwards the message.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory. Section 7.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory. Section 7.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including headers and with upper and lower cases forwards the message.
TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose: TPId: Status: Ref: Purpose:	SIP_MG_PR_V_005 Mandatory. Section 19.1.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header forwards the message. SIP_MG_PR_V_006 Mandatory. Section 8.2.2 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including unknown header forwards the message without removing or modifying those fields. SIP_MG_PR_V_007 Mandatory. Section 7.3.1 of [IETF RFC 3261]. Ensure that the IUT on receipt of an INVITE request including headers and with upper and lower cases forwards the message. SIP_MG_PR_V_008 Mandatory.

Purpose:	Ensure that the IUT on receipt of an INVITE request including headers set with values preceded by several leading white space and properly extended over multiple lines forwards the message.
TPId:	SIP_MG_PR_V_009
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a Via header set with multiple values separated by a comma forwards the message after having inserted its own Via header value without changing the order of these field values.
TPId:	SIP_MG_PR_V_010
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including multiple Via headers forwards the message after having inserted its own Via header value but without changing the order of these fields.
TPId:	SIP_MG_PR_V_011
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including a branch parameter named with upper and lower cases in Via header forwards the message.
TPId:	SIP_MG_PR_V_012
Status:	Mandatory.
Ref:	Section 7.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT after having forwarded an INVITE request, on receipt of a Success (299 OK) response with non-defined last two digits forwards the message.
TPId:	SIP_MG_PR_V_013
Status:	Mandatory.
Ref:	Section 7.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT after having forwarded an INVITE request, on receipt of a Success (200 PERFECT) response with an unknown reason phrase forwards the message.
TPId:	SIP_MG_PR_V_014
Status:	Mandatory.
Ref:	Section 7.3.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including headers set with short names forwards the message.
TPId:	SIP_MG_PR_V_015
Status:	Mandatory.

Ref:	Section 18.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a 65.535 bytes long INVITE request forwards the message.
TPId:	SIP_MG_PR_V_016
Status:	Mandatory.
Ref:	Section 7.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request over a stream-oriented (TCP) transport with several CRLF before the start-line, forwards the message.
6.5.5.2 Invalid be	haviour
TPId:	SIP_MG_PR_I_001
Status:	Mandatory.
Ref:	Section 7.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request with SIP version in lower case forwards the message.
TPId:	SIP_MG_PR_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a transport parameter in the From and To headers, ignores them and forwards the message.
TPId:	SIP_MG_PR_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including header parameters in the SIP-URI of the From and To headers, ignores them and forwards the message.
TPId:	SIP_MG_PR_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including method parameters set to "CANCEL" in the SIP-URI of the From and To headers, ignores them and forwards the message.
TPId:	SIP_MG_PR_I_005
Status:	Recommended.
Ref:	Section 24.4.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request without Call-Id header sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_PR_I_006
Status:	Mandatory.

Ref:	Sections 7.3.1 and 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including header field Retry-After, ignores it and forwards the message.
TPId:	SIP_MG_PR_I_007
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part shorter than the length indicated in the Content-Length header field, sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_PR_I_008
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part longer than the length indicated in the Content-Length header field, ignores extra bytes and forwards the message.
TPId:	SIP_MG_PR_I_009
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, while a message-oriented (UDP) transport is used, on receipt of a Success (200 OK) response including a body part shorter than the length indicated in the Content-Length header field, discards it and does not forward it.
TPId:	SIP_MG_PR_I_010
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, when an INVITE client transaction is in the Calling state while a message-oriented (UDP) transport is used, on receipt of a Success (200 OK) response including a body part longer than the length indicated in the Content-Length header field, ignores extra bytes and forwards it.
6.5.6 Redirect server	
Group selection:	IUT is a Redirect Server.
Status:	PICS: A.1/4 AND A.114/1.
6.5.6.1 Valid beha	aviour
TPId:	SIP_MG_RD_V_001
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including escaped characters in the SIP-URI of the Contact header, sends a 3XX redirection response to the caller.

TPId:	SIP_MG_RD_V_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including escaped delimiters in the SIP-URI of the Contact header, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including non-understood uri-parameters in the SIP-URI of the Contact header, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a header parameter in the SIP-URI of the Contact header, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_005
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a method parameter set to "INVITE" in the SIP-URI of the Contact header, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_006
Status:	Mandatory.
Ref:	Section 8.2.2 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including an unknown header, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_007
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including headers named with upper and lower cases, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_008
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including headers set with values preceded by several leading white space and properly extended over multiple lines, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_V_009
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Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a Via header set with multiple values separated by a comma, sends a 3XX redirection response including the received Via header values, without changing their order, to the caller.
TPId:	SIP_MG_RD_V_010
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including multiple Via headers, sends a 3XX redirection response including the received Via header values, without changing their order, to the caller.
TPId:	SIP_MG_RD_V_011
Status:	Mandatory.
Ref:	Section 7.3.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a branch parameter named with upper and lower cases in Via header, sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_V_012
Status:	Mandatory.
Ref:	Section 7.3.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including headers set with short names, sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_V_013
Status:	Mandatory.
Ref:	Section 18.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of a 65.535 bytes long INVITE request sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_V_014
Status:	Mandatory.
Ref:	Section 7.5 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request over a stream-oriented (TCP) transport with several CRLF before the start-line, sends a 3XX redirection to the caller.
6.5.6.2 Invalid be	haviour
TPId:	SIP_MG_RD_I_001

- Status: Mandatory.
- **Ref**: Section 7.1 of [IETF RFC 3261].

Purpose:	Ensure that the IUT, on receipt of an INVITE request with SIP version in lower case, sends a 3XX redirection response to the caller.
TPId:	SIP_MG_RD_I_002
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including a transport parameter in the From and To headers, ignores them and sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_I_003
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including header parameters in the SIP-URI of the From and To headers, ignores them and sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_I_004
Status:	Mandatory.
Ref:	Section 19.1.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request including method parameters set to "CANCEL" in the SIP-URI of the From and To headers, ignores them and sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_I_005
Status:	Recommended.
Ref:	Section 21.4.1 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request without Call-Id header sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_RD_I_006
Status:	Mandatory.
Ref:	Sections 7.3.2 and 20 (with Table 2) of [IETF RFC 3261].
Purpose:	Ensure that the IUT on receipt of an INVITE request including header field Retry-After, ignores it and sends a 3XX redirection to the caller.
TPId:	SIP_MG_RD_I_007
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].
Purpose:	Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part shorter than the length indicated in the Content-Length header field, sends a Bad Request (400 Bad Request) response.
TPId:	SIP_MG_RD_I_008
Status:	Recommended.
Ref:	Section 18.3 of [IETF RFC 3261].

Purpose: Ensure that the IUT, on receipt of an INVITE request, while a message-oriented (UDP) transport is used, including a body part longer than the length indicated in the Content-Length header field, ignores extra bytes and sends a 3XX redirection to the caller.

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