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IMS Network Testing (INT); Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; Part 2: Test Suite Structure and Test Purposes (TSS&TP)

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Foreword

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

The present document is part 2 of a multi-part deliverable covering Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification, as identified below:

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

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

1 Scope

The present document provides the Test Suite Structure an Test Purposes for the Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; conformance test specification (based on 3GPP TS 24.616 Release 10).

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2 References

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

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2.1 Normative references

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

- [1] ETSI TS 124 616: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.616 Release 10)".
- [2] ETSI TS 101 595-1: "IMS Network Testing (INT); Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP Release 10); Part 1: Protocol Implementation Conformance Statement (PICS)".

2.2 Informative references

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

[i.2] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

communication information: information collected and registered by the MCID service

identity information: includes all the information identifying a user, including trusted (network generated) and/or untrusted (user generated) identities

NOTE: See RFC 3966 [i.1] / RFC 3986 [i.2].

trusted identity: network generated user address information

untrusted identity: user generated user address information

NOTE: This may contain additional information.

3.2 Symbols

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

3.3 Abbreviations

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

AS	Application Server
ID	user IDentification
IM	IP Multimedia
IMS	IP Multimedia Subsystem
IP	Internet Protocol
ISC	IP multimedia subsystem Service Control
MCID	Malicious Call Identification
MIME	Multipurpose Internet Mail Extensions
SIP	Session Initiation Protocol
TP	Test Purposes
TSS	Test Suite Structure
UE	User Equipment
URI	Uniform Resource Identifier
XML	eXtensible Markup Language

4 Test Suite Structure (TSS)

Table 4-1: Test Suite Structure (TSS)

MCID			
	terminating_AS		MCID_N01_xxx
	destination_UE		MCID_U01_xxx
	interaction	ECT	MCID_N02_xxx

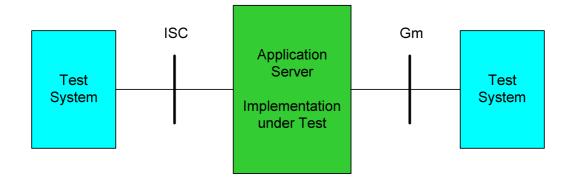
4.1 Configuration

The scope of the present document is to test the signalling and procedural aspects of the stage 3 requirements as described in TS 124 616 [1]. The stage 3 description describes the requirements for several network entities and also the requirements regarding for terminal devices. Therefore several interfaces (reference points) are addressed to satisfy the test of the different entities.

Therefore to test the appropriate entities the configurations below are applicable.

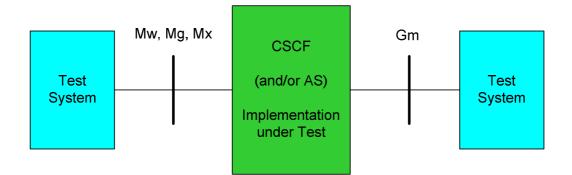
4.1.1 Testing of the AS

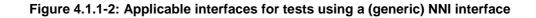
The AS entity is responsible for performing and managing services. The ISC interface is the appropriate access point for testing.





If the ISC interface is not accessible it is also possible to perform the tests of the AS using any NNI (Mw, Mg, Mx) interface (see figure 4.1.1-2). In case only the Gm interface is accessible this interface can be used instead for testing, but the verification of all requirements may not be possible.





4.1.2 Testing of the UE

There are special clauses in the protocol standard describing the procedures that apply at the originating and terminating user equipment. Therefore the test configuration below has been chosen.

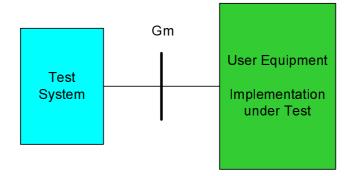


Figure 4.1.2-1: Applicable configuration to test UE functionalities

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

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

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Table 5.1.1-1: TP identifier na	aming convention scheme
---------------------------------	-------------------------

Identifier: <s< th=""><th colspan="9">Identifier: <ss>_<iut><group>_<nnn></nnn></group></iut></ss></th></s<>	Identifier: <ss>_<iut><group>_<nnn></nnn></group></iut></ss>								
<\$\$>	=	supplementary service:	e.g. "MCID"						
<iut></iut>	=	type of IUT:	U N	User equipment Network entity					
<group></group>	=	group	2 digit field r	epresenting group reference according to TSS					
<nnn></nnn>	=	sequential number	(001-999)						

5.1.2 Test strategy

As the base standard TS 124 616 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 101 595-1 [2]. The criteria applied include the following:

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

TPs for Malicious Communication Identification (MCID) 5.2

TSS	TP	MCID referenc	e Selection expression
MCID/terminating_AS	MCID_N01_001	4.5.2.5.2	PICS 4.5.1/2 AND PICS 4.7.1/2
Fest purpose	· · · ·		
The AS holds the call state after a E			
Ensure that the AS holds the confirm			
and a BYE was received from the o	riginating user UE. When T _{MCID}	-BYE is expired, the	BYE is forwarded to the
erminating UE.		2.2	
Preconditions: Called user has MC	CID subscription with Temporary	/ Mode	
SIP header values:			
Comments:			
Test equipment (ISC)	AS	Test equ	ipment (Gm)
NVITE	→	→ INVITE	
100 Trying	+	🗲 100 Tryin	
180 Ringing	+	🗲 180 Ringi	
200 OK INVITE	(← 200 OK II	NVITE
ACK	→	→ ACK	
BYE	→ T _{MCID-BYE} started		
200 OK BYE	←		
	T _{MCID-BYE} expire	6	
		→ BYE	
		🗲 200 OK E	BYE
TSS	TP	MCID referenc	e Selection expression
MCID/terminating_AS	MCID_N01_002	4.5.2.5.2	PICS 4.5.1/2 AND PICS 4.7.1/2
			
The AS holds the early dialogue sta			
The AS holds the early dialogue sta			s subscribed by the called user
The AS holds the early dialogue states the state of the states that the AS holds the early of the states the states of the state	dialogue state while T _{MCID-BYE} i	s running, if MCID i	
The AS holds the early dialogue sta Ensure that the AS holds the early o and a CANCEL was received from t	dialogue state while T _{MCID-BYE} i	s running, if MCID i	
The AS holds the early dialogue sta Ensure that the AS holds the early o and a CANCEL was received from t he terminating UE.	dialogue state while T _{MCID-BYE} ^{i:} he originating user UE. When T	s running, if MCID i _{MCID-BYE} is expired	
The AS holds the early dialogue states Ensure that the AS holds the early of and a CANCEL was received from the terminating UE. Preconditions: Called user has MC	dialogue state while T _{MCID-BYE} ^{i:} he originating user UE. When T	s running, if MCID i _{MCID-BYE} is expired	
Test purpose The AS holds the early dialogue states Ensure that the AS holds the early of and a CANCEL was received from the the terminating UE. Preconditions: Called user has MC SIP header values: Comments:	dialogue state while T _{MCID-BYE} ^{i:} he originating user UE. When T	s running, if MCID i _{MCID-BYE} is expired	
The AS holds the early dialogue states Ensure that the AS holds the early of and a CANCEL was received from the terminating UE. Preconditions: Called user has MC SIP header values: Comments:	dialogue state while T _{MCID-BYE} ^{i:} he originating user UE. When T	s running, if MCID i _{MCID-BYE} is expired / Mode	I, the CANCEL is forwarded to
The AS holds the early dialogue states Ensure that the AS holds the early of and a CANCEL was received from t the terminating UE. Preconditions: Called user has MC SIP header values:	dialogue state while T _{MCID-BYE} is the originating user UE. When T CID subscription with Temporary	s running, if MCID i _{MCID-BYE} is expired / Mode	
The AS holds the early dialogue sta Ensure that the AS holds the early d and a CANCEL was received from t he terminating UE. Preconditions: Called user has MC SIP header values: Comments: Fest equipment (ISC)	dialogue state while T _{MCID-BYE} is the originating user UE. When T CID subscription with Temporary AS	s running, if MCID i _{MCID-BYE} is expired Mode Test equ	i, the CANCEL is forwarded to

5.2.1 Actions at the AS of the terminating user

CANCEL

ACK

200 OK CANCEL 487 Request Terminated

9

 $\rm T_{\rm MCID-BYE}$ started

 $T_{MCID-BYE}$ expires

CANCEL

ACK

200 OK CANCEL

487 Request Terminated

→

← ←

→

> + + >

TSS	TP	MCID reference	Selection expression
MCID/terminating_AS	MCID_N01_003	4.5.2.5.2	PICS 4.5.1/2 AND
inicite/terminating_/te		1.0.2.0.2	PICS 4.7.1/2
Test purpose			T
MCID request containing a mcid XML t confirmed dialogue	oody. The AS holds the ca	all state after a BYE from	the originating UE in the
MCID is subscribed by the called user	and a BYE was received f	from the originating user	UE in the confirmed dialogue.
Ensure that the AS holds the call state	while T _{MCID-BYE} is running	g.	
If a reINVITE and the 'mcid' XML body			d while T _{MCID-BYE} is running,
ensure that the BYE is forwarded to the			
Preconditions: Called user has MCID	subscription with Tempor	ary Mode	
SIP header values:	· · ·	•	
reINVITE without session modification			
XML mcid			
request			
	estIndicator = 1		
Comments:			
Test equipment (ISC)	AS	Test equipm	nent (Gm)
INVITE	→		
100 Trying	(100 Trying 100 Dia sign 	
180 Ringing 200 OK INVITE	←	 ← 180 Ringing ← 200 OK INVI 	TE
ACK	←		IE
ACK	7	ACK	
BYE	→ T _{MCID-BYE} started	d	
200 OK BYE	€ WICID-DTE		
	-	← Re-INVITE r	equesting MCID
		→ 200 OK INVI	
		← ACK	
	T _{MCID-BYE} expires	S	
		→ BYE	
		€ 200 OK BYE	

TSS	ТР	MCID reference	Selection expression
MCID/terminating_AS	MCID_N01_004	4.5.2.5.2	PICS 4.5.1/2 AND
Ū.			PICS 4.7.1/2

Test purpose MCID request a mcid XML body is not present. The AS holds the call state after a BYE from the originating UE in the confirmed dialogue

MCID is subscribed in Temporary Mode by the called user and a BYE was received from the originating user UE in the confirmed dialogue. Ensure that the AS holds the call state while $T_{MCID-BYE}$ is running.

If a reINVITE and the 'mcid' XML body is not present to invoke the MCID service was received while T_{MCID-BYE} is

running, ensure that the BYE is forwarded to the terminating UE when T_{MCID-BYE} is expired.

Preconditions: Called user has M	CID subso	cription with Temporary	Mode	
SIP header values:				
reINVITE without session modificat	ion			
Comments:				
Test equipment (ISC)		AS		Test equipment (Gm)
INVITE	→		→	INVITE
100 Trying	÷		←	100 Trying
180 Ringing	+		←	180 Ringing
200 OK INVITE	+		←	200 OK INVITE
ACK	→		→	ACK
BYE	→	T _{MCID-BYE} started		
200 OK BYE	←			
			←	Re-INVITE requesting MCID
			→	200 OK INVITE
			←	ACK
		T _{MCID-BYE} expires		
			→	BYE
			←	200 OK BYE

TSS	TP		MCIE	O reference	Selection expression
MCID/terminating_AS	MC	ID_N01_005	4.5.2	.5.2	PICS 4.5.1/2 AND
0_					PICS 4.7.1/2
Test purpose					
MCID request containing a mcid >	ML body in the	e confirmed dialo	gue		
MCID is subscribed with Tempora				reINVITE and	the 'mcid' XML body is
present to invoke the MCID servic					
UE.					6 6
Preconditions: Called user has N	ICID subscript	ion with Tempora	ry Mode		
SIP header values:	•	•			
reINVITE without session modification	ation				
XML mcid					
request					
McidReq	uestIndicator =	1			
Comments:					
Test equipment (ISC)		AS		Test equipm	nent (Gm)
INVITE	→		→	INVITE	
100 Trying	+		+	100 Trying	
180 Ringing	+		←	180 Ringing	
200 OK INVITE	←		←	200 OK INVI	TE
ACK	→		→	ACK	
			L		
			(equesting MCID
			→	200 OK INVI	IE
			+	ACK	
	F	opply post test r	outine		

TSS	ТР	MCID	reference	Selection expression
MCID/terminating_AS	MCID_N01_006	4.5.2.	.5.2	PICS 4.5.1/2 AND
				PICS 4.7.1/2
Test purpose				
MCID request a mcid XML body is not pre	sent in the confirmed d	ialogue		
MCID is subscribed with Temporary Mode	by the called user A re	INVITE ar	nd the 'mcid' XI	ML body is not present to
invoke the MCID service was received in t	he confirmed state the	reINVITE	is possible sen	t toward the originating UE.
Preconditions: Called user has MCID sul	bscription with Tempora	ary Mode		
SIP header values:				
reINVITE without session modification				
Comments:				
Test equipment (ISC)	AS		Test equipm	ent (Gm)
INVITE -	•	→	INVITE	
100 Trying		+	100 Trying	
180 Ringing		+	180 Ringing	
200 OK INVITE		+	200 OK INVI	ГЕ
АСК →	•	→	ACK	
CASE A				
		+	Re-INVITE re	equesting MCID
		→	200 OK INVI	ΓĖ
		+	ACK	
CASE B				
Re-INVITE		←	Re-INVITE re	equesting MCID
200 OK INVITE	•	→	200 OK INVI	
ACK 🗧	•	+	ACK	
	Apply post test r	outine		

TSS	TP	MCI	D reference	Selection expression
MCID/terminating_AS	MCID_N01_	_007 4.5.2	2.5.2	PICS 4.5.1/2 AND PICS 4.7.1/2
Test purpose				
MCID request containing a mcid XN early dialogue				
MCID is subscribed with Temporary in the early dialogue. Ensure that the				d from the originating user UE
If a reINVITE to invoke the MCID se	rvice was received ar	nd the 'mcid' XML	body is preser	nt while T _{MCID-BYE} is running,
ensure that the CANCEL is forwarde	ed to the terminating I	JE when timer T _r	_{MCID-BYE} is expi	red.
Preconditions: Called user has MC	ID subscription with	Temporary Mode		
SIP header values: reINVITE without session modificati XML mcid	on			
request McidReque	stIndicator = 1			
Comments:				
Test equipment (ISC)	AS		Test equipm	nent (Gm)
INVITE 100 Trying	→ ←	→ +	INVITE 100 Trying	
180 Ringing	÷	+	180 Ringing	
CANCEL 200 OK CANCEL 487 Request Terminated ACK	→ T _{MCID-BYE} ← ←	started		
	-	← → ←	Re-INVITE re 200 OK INVI ACK	equesting MCID TE
	T _{MCID-BYE}	expires	CANCEL	
		→ +	200 OK CAN	ICEI
		 ← → 	487 Request	

TSS	TP	MCID	reference	Selection expression
MCID/terminating_AS	MCID_N01_008	4.5.2.		PICS 4.5.1/2 AND
0				PICS 4.7.1/2
Test purpose				
MCID request a mcid XML body is not pres	ent. The AS holds the c	all state	after a CANC	EL from the originating UE in
the early dialogue				
MCID is subscribed in Temporary Mode by				from the originating user UE in
the early dialogue. Ensure that the AS hold				
If a reINVITE to invoke the MCID service wa	as received and the 'mc	id' XML	body is not pre	esent while T _{MCID-BYE} is
running, ensure that the CANCEL is forward	ded to the terminating U	E when	timer T _{MCID-B}	_{YF} is expired.
Preconditions: Called user has MCID subs				-
SIP header values:				
reINVITE without session modification				
Comments:				
Test equipment (ISC)	AS		Test equipn	nent (Gm)
INVITE -		→	INVITE	
100 Trying		÷	100 Trying	
180 Ringing ←		÷	180 Ringing	
	T _{MCID-BYF} started			
	MCID-BYE Started			
200 OK CANCEL 487 Request Terminated				
ACK				
		←	Re-INVITE r	equesting MCID
		÷	200 OK INVI	
		←	ACK	
	T _{MCID-BYE} expires			
		→	CANCEL	
		÷	200 OK CAN	ICEL
		←	487 Request	t Terminated
		→	ACK	

TSS		TP	MCID	reference	Selection expression
MCID/terminating_AS			4.5.2.5		Selection expression PICS 4.5.1/2 AND
MCID/terminating_AS		MCID_N01_009	4.5.2.3	5.3	
Toot purposo					PICS 4.7.1/3
Test purpose	ity not roopily	ad in the initial INIV/ITI	raanan	a reactived con	taining the requested
Requesting the originating identi Identity	ity not receive		=, respons	se received con	laining the requested
	d and a D Aa	aartad Idaatiity ia aat	nrocont E	nouro that the	
An INVITE request was received					
message containing a XML 'mci					
INFO message containing a XM		WITH WICHD AIML Res	ponse sci	nema and the o	nginating identity, passes
on the 180 Ringing from the call		wintion (Downson and M			
Preconditions: Called user has		ription (Permanent IV	lode or Te	emporary Mode	
SIP header values:					
INVITE: without P-Asserted-Ider	ntity				
INFO1					
XML mcid					
request		4			
	estIndicator =	: 1			
INFO2					
XML mcid					
Response					
IVICIARESDC	onseIndicator				
		-1)			
OrigPartylc					
OrigPartylo OrigPartyP	resentationR	estriction (otional)			
OrigPartylc OrigPartyP GenericNu	PresentationR mber (otional	estriction (otional)	1)		
OrigPartylc OrigPartyP GenericNu GenericNu	PresentationR mber (otional	estriction (otional)	nal)		
OrigPartylc OrigPartyP GenericNu GenericNu Comments:	PresentationR mber (otional	estriction (otional) l) ationRestriction (otion	nal)	T o at a multimera	nt (Cm)
OrigPartylc OrigPartyP GenericNu GenericNu Comments: Test equipment (ISC)	PresentationR mber (otional mberPresent	estriction (otional)	nal)	Test equipme	nt (Gm)
OrigPartyld OrigPartyP GenericNu GenericNu Comments: Test equipment (ISC) INVITE	PresentationR mber (otional mberPresent	estriction (otional) l) ationRestriction (otion	nal)	Test equipme	nt (Gm)
OrigPartyld OrigPartyP GenericNu GenericNu Comments: Test equipment (ISC) INVITE 100 Trying	PresentationR mber (otional mberPresent	estriction (otional) l) ationRestriction (otion	nal)	Test equipme	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu Comments: Test equipment (ISC) INVITE 100 Trying CASE A	PresentationR mber (otional mberPresent → ←	estriction (otional) l) ationRestriction (otion AS	,		nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body)	PresentationR mber (otional mberPresent → ← ←	estriction (otional) l) ationRestriction (otion	→	INVITE	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu Comments: Test equipment (ISC) INVITE 100 Trying CASE A	PresentationR mber (otional mberPresent → ←	estriction (otional) l) ationRestriction (otion AS	→ +	INVITE 100 Trying	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO	PresentationR mber (otional mberPresent → ← ← →	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started	→	INVITE	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body)	PresentationR mber (otional mberPresent → ← ←	estriction (otional) l) ationRestriction (otion AS	→ +	INVITE 100 Trying	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO	PresentationR mber (otional mberPresent → ← ← →	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started	→ +	INVITE 100 Trying	nt (Gm)
OrigPartylo OrigPartyP GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO INFO2 (MIME body)	PresentationR mber (otional mberPresent ← ← → →	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started	→ +	INVITE 100 Trying	nt (Gm)
OrigPartyle OrigPartyle GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO INFO2 (MIME body) 200 OK INFO 180 Ringing	PresentationR mber (otional mberPresent ← ← → ←	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started	→ +	INVITE 100 Trying	nt (Gm)
OrigPartyld OrigPartyl GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO INFO2 (MIME body) 200 OK INFO 180 Ringing CASE B	PresentationR mber (otional mberPresent ← ← → ← ←	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started T _{O-ID} stopped	→ +	INVITE 100 Trying	nt (Gm)
OrigPartyld OrigPartyP GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO INFO2 (MIME body) 200 OK INFO 180 Ringing CASE B INFO1 (MIME body)	PresentationR mber (otional mberPresent ← ← → ← ← ←	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started	→ +	INVITE 100 Trying	nt (Gm)
OrigPartylc OrigPartyl GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO INFO2 (MIME body) 200 OK INFO 180 Ringing CASE B	PresentationR mber (otional mberPresent ← ← → ← ←	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started T _{O-ID} stopped	→ +	INVITE 100 Trying	nt (Gm)
OrigPartyle OrigPartyle GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO 180 Ringing CASE B INFO1 (MIME body) 200 OK INFO 180 Ringing	PresentationR mber (otional mberPresent ← ← → ← ← ← ←	As T _{O-ID} started T _{O-ID} started	→ + +	INVITE 100 Trying 180 Ringing	nt (Gm)
OrigPartyle OrigPartyle GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO 180 Ringing CASE B INFO1 (MIME body) 200 OK INFO 180 Ringing CASE B INFO1 (MIME body) 200 OK INFO	PresentationR mber (otional mberPresent ← ← → ← ← ← ← →	estriction (otional) l) <u>ationRestriction (otion</u> AS T _{O-ID} started T _{O-ID} stopped	→	INVITE 100 Trying 180 Ringing INVITE	nt (Gm)
OrigPartyle OrigPartyle GenericNu GenericNu GenericNu GenericNu INVITE 100 Trying CASE A INFO1 (MIME body) 200 OK INFO 180 Ringing CASE B INFO1 (MIME body) 200 OK INFO 180 Ringing	PresentationR mber (otional mberPresent ← ← → ← ← ← ←	As T _{O-ID} started T _{O-ID} started	→ + +	INVITE 100 Trying 180 Ringing	nt (Gm)

TSS MCID/terminating_AS		TP MCID_N01_010	MCII 4.5.2	D reference 2.5.3	Selection expression PICS 4.5.1/2 AND
					PICS 4.7.1/3
Test purpose					
Requesting the originating identity				nse received w	ithout originating Identity
An INVITE request was received a Ensure that the AS, having sent ar				l' body with MC	
requesting the originating ID, on re					
Ringing from the called user.	ceipi oi ai	This O message not	Containin		ig identity, passes on the 100
Preconditions: Called user has M	ICID subso	cription (Permanent N	lode or T	emporary Mod	le)
SIP header values:					- /
INVITE: without P-Asserted-Identit	У				
XML mcid					
request					
McidRequest	Indicator =	= 1			
INFO2					
XML mcid					
response		0			
McidRespons		· = 0			
without originating id	lentity				
Test equipment (ISC)		AS		Test equipm	nent (Gm)
INVITE	→	-			
100 Trying	÷				
CASE A					
INFO1 (MIME body)	+	T _{O-ID} started	→	INVITE	
200 OK INFO	→		←	100 Trying	
	_	- , ,	÷	180 Ringing	
INFO2 (MIME body)	→	T _{O-ID} stopped			
200 OK INFO	+ +				
180 Ringing	4				
CASE B					
INFO1 (MIME body)	÷	T _{O-ID} started			
200 OK INFO	→				
INFO2 (MIME body)	→	T _{O-ID} stopped	→	INVITE	
200 OK INFO	+		←	100 Trying	
180 Ringing	+		+	180 Ringing	
		Apply post test re	outine		

TSS		ТР	MCII	D reference	Selection expression
MCID/terminating_AS		MCID_N01_011	4.5.2	2.5.3	PICS 4.5.1/2 AND
					PICS 4.7.1/3
Test purpose					
Requesting the originating ident					d
An INVITE request was received					
Ensure that the AS, having sent					
requesting the originating ID, on	the expiry of	T _{O-ID} , passes on the	e 180 Rin	iging from the o	called user.
Preconditions: Called user has	MCID subsc	ription (Permanent M	/lode or T	emporary Mod	de)
SIP header values:					
INFO					
XML mcid					
request					
	estIndicator =	1			
Comments:					
Test equipment (ISC)		AS		Test equipment (Gm)	
INVITE	→				
100 Trying	+				
CASE A	_	-	_		
INFO (MIME body)	+	T _{O-ID} started	→	INVITE	
200 OK INFO	→		÷	100 Trying	
			+	180 Ringing	
180 Ringing	÷	T _{O-ID} expires			
CASE B					
INFO1 (MIME body)	+	T _{O-ID} started			
200 OK INFO	→				
		T _{O-ID} expires	→	INVITE	
		0.12	←	100 Trying	
180 Ringing	+		÷	180 Ringing	
3	-	Apply post test re	outine		

5.2.2 Actions at the destination UE

TSS	ТР	MCID reference	Selection expression
MCID/destination_UE	MCID_U01_001	4.5.2.12	PICS 4.5.1/1 AND
			PICS 4.6.1/1
Test purpose			
The UE sends a MCID request in the	confirmed state		
Ensure that the UE is able to invoke	MCID in the confirmed state. The	e UE sends a Re-INV	ITE without session
modification and no 'mcid' XML elem	ent is present.		
Preconditions:			
SIP header values:			
Re-INVITE without session modificat	ion		
Comments:			
Test equipment		Use	r equipment
	INVITE	→	
+	100 Trying		
←	180 Ringing		
+	200 OK INVITE		
	ACK	→	
←	Re-INVITE requesting M	CID	
	200 OK INVITE		
←	ACK	+	
	Apply post test rout	ine	

TSS	TP	MCID reference	Selection expression
MCID/destination_UE	MCID_U01_002	4.5.2.12	PICS 4.5.1/1 AND PICS 4.6.1/1
Test purpose The UE sends a MCID reques Ensure that the UE is able to in modification and no 'mcid' XMI Preconditions:	woke MCID in the early dialog	ue. The UE sends a Re-INVI	TE without session
SIP header values:			
Re-INVITE without session mo	dification		
Comments: Test equipment	HNVITE ← 100 Tryin ← 180 Ring	ng →	er equipment
	 ← Re-INVITE reque 200 OK IN ← ACK Apply post te 	VITĚ 🗲	
TSS MCID/destination_UE	TP MCID_U01_003	MCID reference 4.5.2.12	Selection expression PICS 4.5.1/1 AND PICS 4.6.1/2
Ensure that the UE is able to in	t using the XML McidRequest nvoke MCID in the confirmed si IE is able to send a 'mcid' XML	tate. The UE sends a Re-IN	/ITE without session
Preconditions:			
SIP header values: Re-INVITE without session mo XML mcid	dification		
request McidRea	uestIndicator = '1'		
Comments: Test equipment			er equipment
	INVITE ← 100 Tryin ← 180 Ring ← 200 OK IN	ng ving vITE	
	ACK ← Re-INVITE reque 200 OK IN ← ACK		
	Apply post te	est routine	

TSS	Т	P	MCID reference	Selection expression
MCID/destination_UE	N	ICID_U01_004	4.5.2.12	PICS 4.5.1/1 AND
				PICS 4.6.1/2
Test purpose				
The UE sends a MCID requi				
Ensure that the UE is able to				
modification. Ensure that the	e UE is able	e to send a 'mcid' XML I	MIME body with the McidR	equestIndicator set to 1.
Preconditions:				
SIP header values:				
Re-INVITE without session r	modification	า		
XML mcid				
request				
McidRe	equestIndic	ator = '1'		
Comments:				
Test equipment			Use	er equipment
		INVITE	→	
	+	100 Tryin	g	
	÷	180 Ringir	ng	
	←	Re-INVITE reques	ting MCID	
		200 OK INV	•	
	+	ACK		
		Apply post tes	st routine	

5.3 Interaction with other services

5.3.1 Explicit Communication Transfer (ECT)

TSS	Т	P	MCII	O reference	Selection expression
MCID/interaction/ECT	Μ	CID_N02_001	4.6.10		PICS 4.5.1/2 AND PICS 4.7.1/4
Test purpose					1100 4.7.174
MCID request is rejected if a cor	nmunication is	transferred			
MCID is subscribed in Temporar			e confirm	ed communicat	tion is set on hold. Ensure
that a MCID request is rejected i	f a communica	tion was transferre	d before	by the called us	ser.
Preconditions: Called user has					
SIP header values:		•			
INVITE					
XML mcid					
request					
	stIndicator = 1				
Comments:					
Test equipment (ISC)		AS		Test equipm	ent (Gm)
INVITE 1	→		→	INVITE	
100 Trying	+		÷	100 Trying	
180 Ringing	÷		÷	180 Ringing	
200 OK INVITE	← →		+ →	200 OK INVI	IE
ACK	7		7	ACK	
INVITE	←		←	INVITE 2 (se	ndonly)
200 OK INVITE	÷		÷	200 OK INVI	
ACK	÷		÷	ACK	
-				-	
			←	REFER	
			→	202 Accepted	b
			←	INVITE 3	
			→	488 Not Acce	eptable Here
			←	ACK	-
		Apply post test r	outine		

History

	Document history					
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