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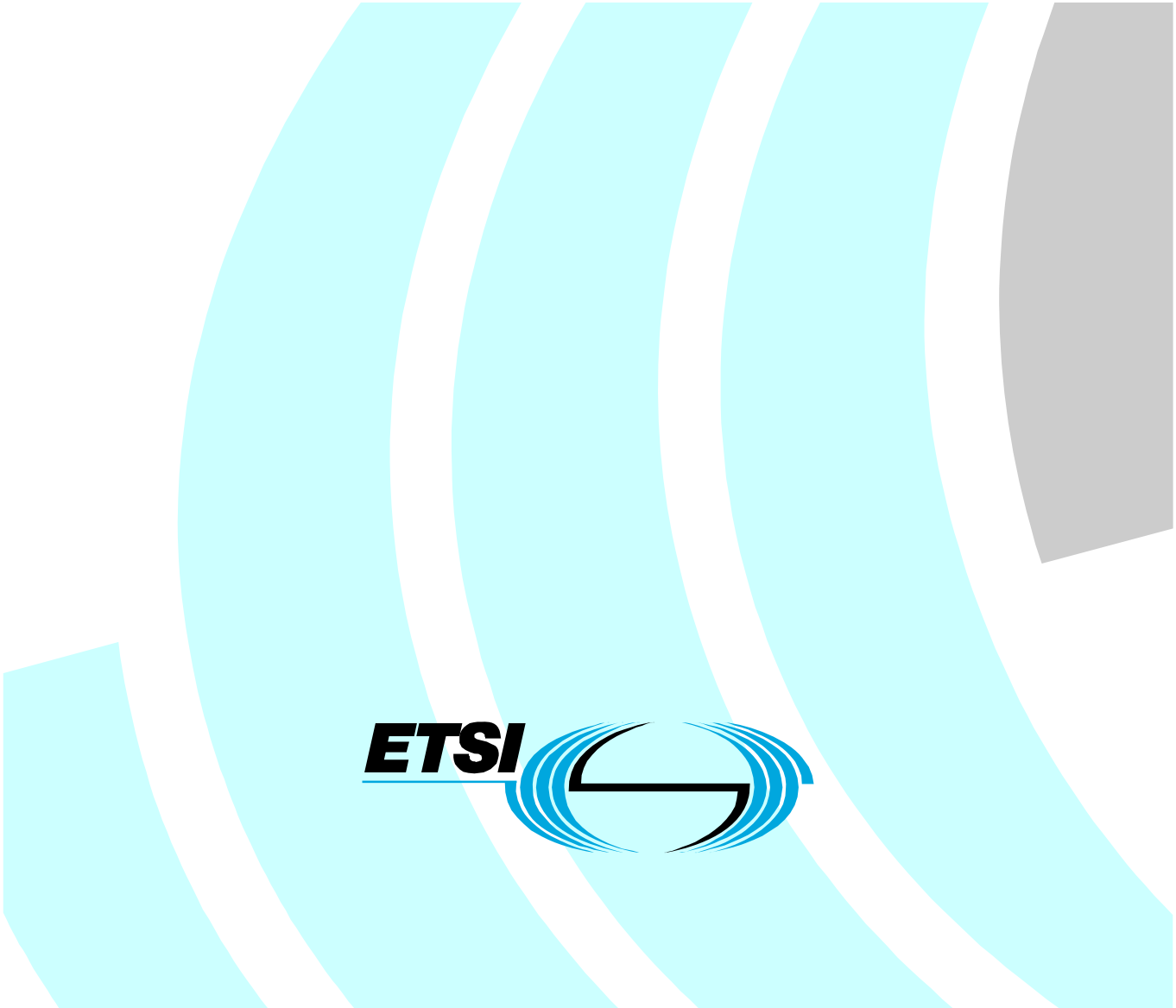
Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Part 2: Test Suite Structure and Test Purposes (TSS&TP)



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Contents

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 2 of a multi-part deliverable covering the Malicious Communication Identification (MCID) service, related to PSTN/ISDN simulation services, as identified below:

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

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

1 Scope

The present document specifies the test suite structure and test purposes of the Malicious Communication Identification (MCID) service based on the stage three of IMS MCID simulation service. Within the Next Generation Network (NGN) the stage 3 description is specified using the IP-Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP). The MCID service will store session related information independent of the service requested.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

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

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

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

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

[2] ETSI TS 186 018-1: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Part 1: Protocol Implementation Conformance Statement (PICS)".

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

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

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

[6] ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area**.** For non-specific references, the latest version of the referenced document (including any amendments) applies.

[i.1] IETF RFC 3966: "The tel URI for Telephone Numbers".

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

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 181 002 [3], TS 181 006 [4], TR 180 000 [5] and the following apply:

communication information: information collected and registered by the MCID service

identity information: includes all the information (RFC 3966 [i.1] // RFC 3986 [i.2]) identifying a user, including trusted (network generated) and/or untrusted (user generated) identities

trusted identity: network generated user address information

untrusted identity: user generated user address information

NOTE: This may contain additional information.

3.2 Abbreviations

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

ACM	Address Complete Message
ANM	Answer Message
AS	Application Server
CDIV	Communication DIVersion services
HOLD	communication HOLD
IAM	Initial Address Message
IDR	Identification Request message
IM	IP Multimedia
IMS	IP Multimedia Subsystem
IP	Internet Protocol
IRS	Identification Response message
ISDN	Integrated Service Digital Network
MCID	Malicious Call Identification
MGCF	Media Gateway Control Function
NGN	Next Generation Network
PSTN	Public Switched Telephone Network
REL	Release message
RLC	Release Complete message
S-CSCF	Service - Call Session Control Function
SDP	Session Description Protocol
SIP	Session Initiation Protocol

TP	Test Purposes
TSS	Test Suite Structure
UE	User Equipment
URI	Uniform Resource Identifier

4 Test Suite Structure (TSS)

MCID			
	terminating_S-CSCF		MCID_N01_xxx
	terminating_AS		MCID_N02_xxx
	destination_UE		MCID_U01_xxx
SIP-ISUP			
	SS	MCID	TP507xxx
ISUP-SIP			
	SS	MCID	TP614xxx

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 1).

Table 1: TP identifier naming convention scheme

Identifier: **<ss>_<iut><group>_<nnn>**				
<ss>	=	supplementary service:	e.g. "MCID"	
<iut>	=	type of IUT:	U N	User – equipment Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

5.1.2 Test strategy

As the base standard TS 183 016 [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 186 018-1 [2]. The criteria applied include the following:

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

5.2 TPs for Malicious Communication Identification (MCID)

5.2.1 Actions at the terminating S-CSCF

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/terminating_S-CSCF	MCID_N01_001	clause 4.5.2	PICS 1/3
Test purpose *Called user has permanent MCID subscription* Ensure that the S-CSCF forwards the INVITE request to the AS if the called subscriber has a permanent MCID subscription.			
Preconditions:			
SIP header values:			
Comments:			

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/terminating_S-CSCF	MCID_N01_002	clause 4.5.2	PICS 1/4
Test purpose *Called user has case by case MCID subscription* Ensure that the S-CSCF forwards the INVITE request to the AS if the called subscriber has a case by case MCID subscription.			
Preconditions:			
SIP header values: reINVITE without session modification			
Comments:			

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
		Store the session related information		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/terminating_S-CSCF	MCID_N01_003	clause 4.5.2	PICS 1/4 AND PICS 1/5

Test purpose
Called user has permanent MCID subscription
Ensure that the S-CSCF forwards the INVITE request to the AS if the called subscriber has a case by case MCID subscription. A XML MIME body is received indicating MCID request.

Preconditions:

SIP header values:
reINVITE without session modification
XML mcid
    McidRequestIndicator = '1'

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
		Store the session related information		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.2.2 Actions at the AS of the terminating user

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/terminating_AS	MCID_N02_001	clause 4.5.2	PICS 1/9

Test purpose
The AS requests identification information in an INFO request, if no identification was received in the initial INVITE.
Ensure that the AS sends an INFO request including a XML mcid request McidRequestIndicator set to 1 if the initial INVITE does not contain information of the originating party.

Ensure that the received INFO contains the following headers:
- Destination Party Identity Information included in the INVITE Request-URI;
- Originating Party Identity Information included in the INFO body;
- Local time and date of the invocation in the network serving the called user;
- Call diversion information received in the History-Info header, if the History-Info header field is included in the request (escaped Reason); and
- Contact header field.

Preconditions:

SIP header values:
INFO
    XML mcid
        request
            McidRequestIndicator = '1'

Comments:

UA C		**SUT**		**UA S**
INVITE	→			
100 Trying	←			
INFO (XML mcid request)	←			
200 OK INFO	→		→	INVITE
			←	100 Trying
INFO (XML mcid response)	→			
200 OK INFO	←			
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_002	clause 4.5.2	PICS 1/3

Test purpose

The AS stores the session information if the called user has permanent MCID subscription

Ensure that the AS stores the session related information if the called subscriber has a permanent MCID subscription.
Ensure that the stored information contains the following header and information:

- Destination Party Identity Information included in the Request-URI;
- Originating Party Identity Information included in the P-Asserted-Identity header field, if the P-Asserted-Identity header field is included in the request;
- Local time and date of the invocation in the network serving the called user;
- Call diversion information received in the History-Info header, if the History-Info header field is included in the request (escaped Reason);
- Referred-By header field when available;
- Contact header;
- To header; and
- From header.

Preconditions:

SIP header values:

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_003	clause 4.5.2	PICS 1/4

Test purpose

The AS stores the session information if the called user has case by case MCID subscription

Ensure that the AS stores the session related information if the called subscriber has a *case by case* MCID subscription and a reINVITE was received to invoke the MCID service.
Ensure that the stored information contains the following header and information:

- Destination Party Identity Information included in the Request-URI;
- Originating Party Identity Information included in the P-Asserted-Identity header field, if the P-Asserted-Identity header field is included in the request;
- Local time and date of the invocation in the network serving the called user;
- Call diversion information received in the History-Info header, if the History-Info header field is included in the request (escaped Reason);
- Referred-By header field when available;
- Contact header;
- To header; and
- From header.

Preconditions:

SIP header values:

reINVITE without session modification

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
		Store the session related information		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_004	clause 4.5.2	PICS 1/4 AND PICS 1/5

Test purpose

The AS stores the session information if the called user has case by case MCID subscription. Invoke contains a XML mcid request.

Ensure that the AS stores the session related information if the called subscriber has a *case by case* MCID subscription and a reINVITE was received to invoke the MCID service. The reINVITE contains a XML mcid request body.

Ensure that the stored information contains the following header and information:

- Destination Party Identity Information included in the Request-URI;
- Originating Party Identity Information included in the P-Asserted-Identity header field, if the P-Asserted-Identity header field is included in the request;
- Local time and date of the invocation in the network serving the called user;
- Call diversion information received in the History-Info header, if the History-Info header field is included in the request (escaped Reason);
- Referred-By header field when available;
- Contact header;
- To header; and
- From header.

Preconditions:

SIP header values:

reINVITE without session modification
  XML mcid
    request
      McidRequestIndicator = '1'

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
		Store the session related information		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_005	clause 4.5.2	PICS 1/4

Test purpose

The AS holds the call state after a BYE from the originating UE

Ensure that the AS holds the call state while $T_{MCID-BYE}$ is running. When $T_{MCID-BYE}$ is expired, the BYE is forwarded to the terminating UE.

Preconditions:

SIP header values:

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→			
200 OK BYE	←			
		$T_{MCID-BYE}$ expires		
			→	BYE
			←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_006	clause 4.5.2	PICS 1/4

Test purpose

The AS holds the call state after a BYE from the originating UE in the confirmed dialogue

Ensure that the AS holds the call state while $T_{MCID-BYE}$ is running.

Ensure that the AS stores the session related information if a reINVITE to invoke the MCID service was received while $T_{MCID-BYE}$ is running

Ensure that the BYE is forwarded to the terminating UE.

Preconditions:

SIP header values:

reINVITE without session modification

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→			
200 OK BYE	←			
			←	INVITE
			→	200 OK INVITE
			←	ACK
		Store the session related information		
			→	BYE
			←	200 OK BYE

TSS	TP	SUB reference	Selection expression
MCID/terminating_AS	MCID_N02_007	clause 4.5.2	PICS 1/4

Test purpose

The AS deletes the stored session information if no MCID request was received

Ensure that the AS deletes all session related information if no MCID request was received from the served user.

Preconditions:

SIP header values:

Comments:

UA C		SUT		UA S
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.2.3 Actions at the destination UE

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/destination_UE	MCID_U01_001	clause 4.5.2	NOT PICS 1/1

Test purpose
The UE sends a MCID request
Ensure that the UE is able to invoke MCID. The UE sends a reINVITE without session modification.

Preconditions:

SIP header values:
reINVITE without session modification

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

TSS	**TP**	**SUB reference**	**Selection expression**
MCID/destination_UE	MCID_U01_002	clause 4.5.2	PICS 1/2

Test purpose
*The UE sends a MCID request using the XML **McidRequestIndicator***
Ensure that the UE is able to invoke MCID. The UE sends a reINVITE without session modification. Ensure that the UE is able to send a XML MIME body with the **McidRequestIndicator** set to 1.

Preconditions:

SIP header values:
reINVITE without session modification
XML mcid
request
McidRequestIndicator = '1'

Comments:

UA C		**SUT**		**UA S**
INVITE	→		→	INVITE
100 Trying	←		←	100 Trying
180 Ringing	←		←	180 Ringing
200 OK INVITE	←		←	200 OK INVITE
ACK	→		→	ACK
		Communication		
			←	INVITE
			→	200 OK INVITE
			←	ACK
BYE	→		→	BYE
200 OK BYE	←		←	200 OK BYE

5.3 Interaction with other services

5.3.1 Communication Diversion Services (CDIV)

It is not possible to test MCID in case of CDIV.

5.4 Test purposes for the ISUP/SIP Interworking

5.4.1 Interworking at the I-MGCF

TP507001	Reference: ES 283 027 [6], clause 7.4.4	Selection criteria: NOT PICS 1/6
TSS reference:	SIP-ISUP/SS/MCID/	
Preconditions:		
Test purpose:	*No interworking MGCF sends IRS* Ensure that the SUT if an IDR is received returns an IRS message. The MCID response indicator is set to "MCID not included". The SIP signalling procedure is not disrupted.	
SIP Parameter values:	No influence	
ISUP Parameter values:	IDR: MCID requested IRS: MCID not included	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← ← IDR → IRS 180 Ringing ← ← ACM 200 OK INVITE → → ANM ACK Communication BYE → → REL 200 OK BYE ← ← RLC	

TP507002	Reference: ES 283 027 [6], clause 7.4.4	Selection criteria: NOT PICS 1/6
TSS reference:	SIP-ISUP/SS/MCID/	
Preconditions:		
Test purpose:	*No interworking timeout T39* Ensure that the SUT if an IDR is received, no IRS is sent. The SIP signalling procedure is not disrupted	
SIP Parameter values:	No influence	
ISUP Parameter values:	IDR: MCID requested	
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← ← IDR T39 timeout 180 Ringing ← ← ACM 200 OK INVITE → → ANM ACK Communication BYE → → REL 200 OK BYE ← ← RLC	

5.4.2 Interworking at the O-MGCF

TP614001	MCID Reference: 4.7.1.2	Selection criteria: PICS 1/6
TSS reference:	ISUP-SIP/SS/MCID/	
Preconditions:		
Test purpose:	*Mapping of XML mcid request (McidRequestIndicator)* Ensure that the XML mcid McidRequestIndicator contained in a received INFO request mapped into the MCID request indicator requested in the sent IDR	
SIP Parameter values:	INFO XML mcid request McidRequestIndicator = '1'	
ISUP Parameter values:	IDR: MCID request indicator: MCID requested	
Comments:	**ISUP** **MGCF** **SIP** IAM → → INVITE ← 100 Trying IDR(MCID request indicator) ← ← INFO (XML mcid request) → 200 OK INFO ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP614002	MCID Reference: 4.7.1.2	Selection criteria: PICS 1/6 AND PICS 1/7
TSS reference:	ISUP-SIP/SS/MCID/	
Preconditions:		
Test purpose:	*Mapping of XML mcid request (HoldingIndicator)* Ensure that the XML mcid HoldingIndicator is mapped into the MCID request indicator holding requested in the sent IDR	
SIP Parameter values:	INFO: XML mcid request HoldingIndicator = '1'	
ISUP Parameter values:	IDR: *Holding indicator (national use)*: holding requested	
Comments:	**ISUP** **MGCF** **SIP** IAM → → INVITE ← 100 Trying IDR(MCID request indicator) ← ← INFO (XML mcid request) → 200 OK INFO ACM ← ← 180 Ringing ANM ← ← 200 OK INVITE → ACK Communication REL → → BYE RLC ← ← 200 OK BYE	

TP614003	MCID Reference: 4.7.1.2	Selection criteria: PICS 1/6
TSS reference:	ISUP-SIP/SS/MCID/	
Preconditions:		
Test purpose:	*Mapping of IRS (McidResponseIndicator)* Ensure that MCID response indicator provided, contained in an IRS is mapped into the XML mcid response McidResponseIndicator.	
SIP Parameter values:	INFO: XML mcid request McidRequestIndicator = '1' INFO: XML mcid response McidResponseIndicator = '1'	
ISUP Parameter values:	IDR: MCID request indicator: MCID requested IRS: MCID response indicator: MCID provided	

Comments:

ISUP		MGCF		SIP
IAM	→		→	INVITE
			←	100 Trying
IDR(MCID request indicator)	←		←	INFO (XML mcid request)
			→	200 OK INFO
IRS (MCID response indicator)	→		→	INFO (XML mcid response)
			←	200 OK INFO
ACM	←		←	180 Ringing
ANM	←		←	200 OK INVITE
			→	ACK
		Communication		
REL	→		→	BYE
RLC	←		←	200 OK BYE

TP614003	MCID Reference: 4.7.1.2	Selection criteria: PICS 1/6 AND NOT PICS 1/7
TSS reference:	ISUP-SIP/SS/MCID/	
Preconditions:		
Test purpose:	*Mapping of IRS (HoldingProvidedIndicator)* Ensure that MCID response indicator holding provided, contained in an IRS is mapped into the XML mcid response HoldingProvidedIndicator.	
SIP Parameter values:	INFO: XML mcid request HoldingIndicator = '1' INFO: XML mcid response HoldingProvidedIndicator = '0'	
ISUP Parameter values:	IDR: *Holding indicator (national use)* IRS: *Hold provided indicator (national use)*	

Comments:

ISUP		MGCF		SIP
IAM	→		→	INVITE
			←	100 Trying
IDR(MCID request indicator)	←		←	INFO (XML mcid request)
			→	200 OK INFO
IRS (no MCID response indicator)			→	INFO (XML mcid response)
			←	200 OK INFO
ACM	←		←	180 Ringing
ANM	←		←	200 OK INVITE
			→	ACK
		Communication		
REL	→		→	BYE
RLC	←		←	200 OK BYE

TP614004	MCID Reference: 4.7.1.2	Selection criteria: PICS 1/6 AND PICS 1/7
TSS reference:	ISUP-SIP/SS/MCID/	
Preconditions:		
Test purpose:	*Mapping of IRS (HoldingProvidedIndicator)* Ensure that MCID response indicator holding provided, contained in an IRS is mapped into the XML mcid response HoldingProvidedIndicator (Holding indicator is not for national use).	
SIP Parameter values:	INFO: XML mcid request HoldingIndicator = '1' INFO: XML mcid response HoldingProvidedIndicator = '1'	
ISUP Parameter values:	IDR: *Holding indicator*: holding requested IRS: *Hold provided indicator* holding provided	

Comments:

ISUP		MGCF		SIP
IAM	→		→	INVITE
			←	100 Trying
IDR(MCID request indicator)	←		←	INFO (XML mcid request)
			→	200 OK INFO
IRS (no MCID response indicator)			→	INFO (XML mcid response)
			←	200 OK INFO
ACM	←		←	180 Ringing
ANM	←		←	200 OK INVITE
			→	ACK
		Communication		
REL	→		→	BYE
RLC	←		←	200 OK BYE

History

Document history		
V1.0.0	June 2008	Publication