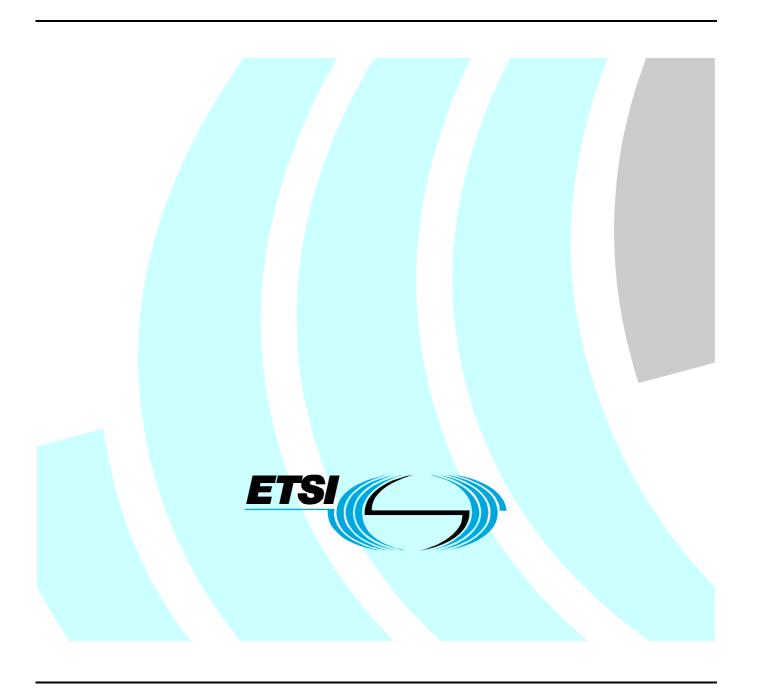# ETSI TS 186 017-2 V1.0.0 (2008-06)

Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Anonymous Communication Rejection (ACR) and Communication Barring (CB); Part 2: Test Suite Structure and Test Purposes (TSS&TP)

Reference

DTS/TISPAN-06038-2-NGN

Keywords

CB, IMS, testing, TSS&TP

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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 Anonymous Communication Rejection (ACR) and Communication Barring (CB) simulation services, as identified below:

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

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

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

1   Scope

The present document specifies the test suite structure and test purposes of the Anonymous Communication Rejection (ACR) and Communication Barring (CB) simulation service, based on stage three of the IMS simulation service Anonymous Call Rejection (ACR), Incoming Communication Barring (ICB) and Outgoing Communication Barring (OCB). 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).

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.

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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 183 011: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Protocol specification".

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

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

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] ETSI TS 186 017-1: "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Part 1: Protocol Implementation Conformance Statement (PICS)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 181 002 [2] and the following apply:

escaped character: See RFC 3261 [3].

NOTE: This may contain additional information.

3.2 Abbreviations

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

ACK	ACKnowledgement
ACR	Anonymous Communication Rejection
AS	Application Server
CB	Communication Barring
CDIV	Communication DIVersion services
HOLD	communication HOLD
ICB	Incoming Communication Barring
IMS	IP Multimedia Subsystem
IP	Internet Protocol
ISUP	ISDN User Part
ISDN	Integrated Service Data Network
NGN	Next Generation Network
OCB	Outgoing Communication Barring
OIP	Originating Identification Presentation
PSTN	Public Switched Telephone Network
SDP	Session Description Protocol
SIP	Session Initiation Protocol
SUB	SUBaddressing
TP	Test Purposes
TSS	Test Suite Structure
UA	User Agent

4   Test Suite Structure (TSS)

ACR-CB			
	ACR_terminating_AS		ACR-CB_N01_xxx
	OBC_originating_AS		ACR-CB_N02_xxx
	IBC_terminating_AS		ACR-CB_N03_xxx
	interaction_OIP		ACR-CB_N04_xxx
	interaction_CDIV		ACR-CB_N05_xxx
ISUP-SIP			
	SS	ACR	TP612xxx
SIP-ISUP			
	SS	ACR	TP515xxx

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. "ACR-CB"
<iut>	=	type of IUT:	U User – equipment N 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 183 011 [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 186 017-1 [i.1]. 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 Anonymous Communication Rejection (ACR)

5.2.1   Action for ACR at the terminating AS

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_001	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2
Test purpose *ACR service rejects an anonymous communication, Privacy value is id.* Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**id**". Ensure that the ACR is sending a 433 (Anonymity Disallowed) response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments:			

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_002	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/4
Test purpose *ACR service rejects an anonymous communication, Privacy value is id. An announcement is provided.* Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "i**d**". Ensure that the **ACR service provides an announcement to the originating user** before sending a 433 (Anonymity Disallowed) response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments:			

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
	Announcement		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_003	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/5
Test purpose *ACR service forwards an anonymous communication, Privacy value is id.* Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**id**". Ensure that the **communication is forwarded to voice message service** instead of rejecting the communication with a 433 (Anonymity Disallowed) final response.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments:			

```
UA C                              SUT              UA S
INVITE                     →
100 Trying                 ←
200 OK INVITE              ←
ACK                        →
            Voice message
BYE                        →
200 OK BYE                 ←
```

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_004	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2
Test purpose *ACR service rejects an anonymous communication, Privacy value is header.* Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**header**". Ensure that the ACR is sending a 433 (Anonymity Disallowed) response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments:			

```
UA C                              SUT              UA S
INVITE                     →
100 Trying                 ←
433 Anonymity Disallowed   ←
ACK                        →
```

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_005	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/4

Test purpose
ACR service rejects an anonymous communication, Privacy value is header. An announcement is provided.
Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**header**".
Ensure that the ACR service provides an announcement to the originating user before sending a 433 (Anonymity Disallowed) response when the communication is rejected.

Preconditions:
incoming-communication-barring active=true
conditions: sub element **anonymous** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
	Announcement		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_006	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/5

Test purpose
ACR service forwards an anonymous communication, Privacy value is header
Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**header**".
Ensure that the communication is forwarded to voice message service instead of rejecting the communication with a 433 (Anonymity Disallowed) final response.

Preconditions:
incoming-communication-barring active=true
conditions: sub element **anonymous** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
200 OK INVITE	←		
ACK	→		
	Voice message		
BYE	→		
200 OK BYE	←		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_007	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2

Test purpose

ACR service rejects an anonymous communication, Privacy value is user.

Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**user**".

Ensure that the ACR is sending a 433 (Anonymity Disallowed) response when the communication is rejected.

Preconditions:

incoming-communication-barring active=true

conditions: sub element **anonymous** is evaluate to "true"

actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_008	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/4

Test purpose

ACR service rejects an anonymous communication, Privacy value is user. An announcement is provided.

Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "user".

Ensure that the ACR service provides an announcement to the originating user before sending a 433 (Anonymity Disallowed) response when the communication is rejected.

Preconditions:

incoming-communication-barring active=true

conditions: sub element **anonymous** is evaluate to "true"

actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
	Announcement		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_009	CB reference TS 183 011, clause 4.5.2.6.2 [**1**]	Selection expression PICS 1/2 AND PICS 1/5

Test purpose
ACR service forwards an anonymous communication, Privacy value is user. Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**user**". Ensure that the communication is forwarded to voice message service instead of rejecting the communication with a 433 (Anonymity Disallowed) final response.

Preconditions:
incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
200 OK INVITE	←		
ACK	→		
	Voice message		
BYE	→		
200 OK BYE	←		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_010	CB reference TS 183 011, clause 4.5.2.6.2 [**1**]	Selection expression PICS 1/2

Test purpose
ACR service rejects an anonymous communication, Privacy value is critical. An. Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**critical**". Ensure that the ACR is sending a 433 (Anonymity Disallowed) response when the communication is rejected.

Preconditions:
incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_011	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/4

Test purpose
ACR service rejects an anonymous communication, Privacy value is critical. announcement is provided.
Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**critical**".
Ensure that the ACR service provides an announcement to the originating user before sending a 433 (Anonymity Disallowed) response when the communication is rejected.

Preconditions:
incoming-communication-barring active=true
conditions: sub element **anonymous** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
	Announcement		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR_CB/ACR_terminating_AS	TP ACR-CB_N01_012	CB reference TS 183 011, clause 4.5.2.6.2 [1]	Selection expression PICS 1/2 AND PICS 1/5

Test purpose
ACR service forwards an anonymous communication, Privacy value is critical.
Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**icritical**".
Ensure that the communication is forwarded to voice message service instead of rejecting the communication with a 433 (Anonymity Disallowed) final response.

Preconditions:
incoming-communication-barring active=true
conditions: sub element **anonymous** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
200 OK INVITE	←		
ACK	→		
	Voice message		
BYE	→		
200 OK BYE	←		

5.3   TPs for Communication Barring (CB)

5.3.1   Actions for OCB at the originating AS

TSS ACR-CB/OBC_originating_AS	TP ACR-CB_N02_001	CB reference TS 183 011, clauses 4.5.2.4.1 and 4.9.1.4 [1]	Selection expression PICS 1/2 AND NOT PICS 1/4
Test purpose *Outgoing communication barring evaluates media.* Ensure that a outgoing communication is rejected when the evaluation of the media field condition matches in one of the "m=" lines of the served users outgoing communication barring rules. Ensure that the ACR is sending a 603 (Decline) final response when the communication is rejected.			
Preconditions: outgoing-communication-barring active=true conditions: sub element **media** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments: **UA C** **SUT** **UA S** INVITE → 100 Trying ← 603 Decline ← ACK →			

TSS ACR-CB/OBC_originating_AS	TP ACR-CB_N02_002	CB reference TS 183 011, clauses 4.5.2.4.1 and 4.9.1.4 [1]	Selection expression PICS 1/2 AND PICS 1/4
Test purpose *Outgoing communication barring evaluates media.* Ensure that a outgoing communication is rejected when the evaluation of the media field condition matches in one of the "m=" lines of the served users outgoing communication barring rules. Ensure that the ACR service provides an announcement to the originating user before sending a 603 (Decline) final response when the communication is rejected.			
Preconditions: outgoing-communication-barring active=true conditions: sub element **media** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments: **UA C** **SUT** **UA S** INVITE → 100 Trying ← **Announcement** 603 Decline ← ACK →			

5.3.2   Actions for ICB at the terminating AS

TSS ACR-CB/IBC_terminating_AS	TP ACR-CB_N03_001	CB reference TS 183 011 clause 4.5.2.6.1 [1]	Selection expression PICS 1/2 AND NOT PICS 1/4
Test purpose *Outgoing communication barring evaluates media.* Ensure that a outgoing communication is rejected when the evaluation of the presence-status field condition matches in one of the "m=" lines of the served users outgoing communication barring rules. Ensure that the ACR is sending a 603 (Decline) final response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **presence-status** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			

Comments:			
UA C		SUT	UA S
INVITE	→		
100 Trying	←		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR-CB/IBC_terminating_AS	TP ACR-CB_N03_002	CB reference TS 183 011 clause 4.5.2.6.1 [1]	Selection expression PICS 1/2 AND PICS 1/4
Test purpose *Outgoing communication barring evaluates media.* Ensure that a outgoing communication is rejected when the evaluation of the presence-status field condition matches in one of the "m=" lines of the served users outgoing communication barring rules. Ensure that the ACR service provides an announcement to the originating user before sending a 603 (Decline) final response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **presence-status** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			

Comments:			
UA C		SUT	UA S
INVITE	→		
100 Trying	←		
	Announcement ←		
433 Anonymity Disallowed	←		
ACK	→		

5.4 Interaction with other simulation services

5.4.1 Originating Identification Presentation (OIP)

TSS ACR-CB/interaction_OIP	TP ACR-CB_N04_001	CB reference TS 183 011, clause 4.6.4 [1]	Selection expression
Test purpose *ACR does not apply to due override category according to the OIP service.* Ensure that the ACR service shall not apply If the called user has subscribed to the override category according to the OIP service.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
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

5.4.2 Communication Diversion services (CDIV)

TSS ACR-CB/interaction_CDIV	TP ACR-CB_N05_001	CB reference TS 183 011, clause 4.6.7 [1]	Selection expression
Test purpose *ACR has precedence if the served user has activated the communication diversion service.* Ensure that the ACR service shall take precedence over the Communication Diversion service for the served user If the served user has activated the ACR. Ensure that the ACR service rejects the incoming communication where the request includes the P-Asserted-Identity header AND the Privacy header indicating "**id**". Ensure that the ACR is sending a 433 (Anonymity Disallowed) response when the communication is rejected.			
Preconditions: incoming-communication-barring active=true conditions: sub element **anonymous** is evaluate to "true" actions: sub element **allow** is evaluate to "false"			
Comments:			

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
433 Anonymity Disallowed	←		
ACK	→		

TSS ACR-CB/interaction_CDIV	TP ACR-CB_N05_002	CB reference TS 183 011, clause 4.6.7 [1]	Selection expression

Test purpose

ICB has precedence if the served user has activated the communication diversion service.
Ensure that the ICB service shall take precedence over the Communication Diversion service for the served user If the served user has activated the ICB.
Ensure that a outgoing communication is rejected when the evaluation of the presence-status field condition matches in one of the "m=" lines of the served users outgoing communication barring rules.
Ensure that the ACR is sending a 603 (Decline) final response when the communication is rejected.

Preconditions:

incoming-communication-barring active=true
conditions: sub element **presence-status** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
603 Decline	←		
ACK	→		

TSS ACR-CB/interaction_CDIV	TP ACR-CB_N05_003	CB reference TS 183 011, clause 4.6.7 [1]	Selection expression

Test purpose

OBC has precedence if the served user has activated the communication diversion service.
Ensure that the OCB service shall take precedence over the Communication Diversion service for the served user.
Ensure that a outgoing communication is rejected when the evaluation of the media field condition matches in one of the "m=" lines of the served users outgoing communication barring rules.
Ensure that the ACR is sending a 603 (Decline) final response when the communication is rejected.

Preconditions:

outgoing-communication-barring active=true
conditions: sub element **media** is evaluate to "true"
actions: sub element **allow** is evaluate to "false"

Comments:

UA C		SUT	UA S
INVITE	→		
100 Trying	←		
603 Decline	←		
ACK	→		

5.5 Test purposes for the ISUP/SIP Interworking

5.5.1 Interworking from ISUP to SIP (Outgoing Call)

TP612001	ACR-CB Reference: TS 183 011 clause 4.7.1.3.1 [1]		Selection criteria:
TSS reference:	ISUP-SIP/SS/ACR		
Preconditions:			
Test purpose:	*Mapping of 433 Anonymity Disallowed to REL cause 24.* Ensure that the 433 Anonymity Disallowed final response received to due the ACR service is mapped into a REL cause 24 "*call rejected due to ACR supplementary service*".		
SIP Parameter values:	433 Anonymity Disallowed		
ISUP Parameter values:	REL cause value 24 "*call rejected due to ACR supplementary service*"		
Comments:	**ISUP** **MGCF** **SIP** IAM → → INVITE ← 100 Trying REL(24) ← ← 433 Anonymity Disallowed RLC → → ACK		

5.5.2 Interworking from SIP to ISUP (Incoming Call)

TP515001	ACR-CB Reference: TS 183 011 clause 4.7.1.2.1 [1]		Selection criteria:
TSS reference:	SIP-ISUP/SS/ACR/		
Preconditions:			
Test purpose:	*Mapping of REL cause 24 to 433 Anonymity Disallowed.* Ensure that the SUT, if a destination user has subscribed the ACR supplementary service: the call attempt is rejected with a REL cause value 24 "call rejected due to ACR supplementary service". The REL cause 24 is mapped into a 433 Anonymity Disallowed final response.		
SIP Parameter values:	433 Anonymity Disallowed		
ISUP Parameter values:	REL cause value 24 "*call rejected due to ACR supplementary service*"		
Comments:	**SIP** **MGCF** **ISUP** INVITE → → IAM 100 Trying ← 433 Anonymity Disallowed ← ← REL(24) ACK → → RLC		

History

Document history		
V1.0.0	June 2008	Publication